

ARNOLD SCHWARZENEGGER  
GOVERNOR OF CALIFORNIA

**SCHEDULE FOR RATING  
PERMANENT DISABILITIES**

UNDER THE PROVISIONS OF THE

**LABOR CODE OF THE STATE OF CALIFORNIA**

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DEPARTMENT OF INDUSTRIAL RELATIONS  
DIVISION OF WORKERS' COMPENSATION

ANDREA LYNN HOCH  
Administrative Director

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## AUTHORITY

Labor Code section 4660, amended effective April 19, 2004, provides:

4660(a) In determining the percentages of permanent disability, account shall be taken of the nature of the physical injury or disfigurement, the occupation of the injured employee, and his or her age at the time of the injury, consideration being given to an employee's diminished future earning capacity.

(b)(1) For purposes of this section, the "nature of the physical injury or disfigurement" shall incorporate the descriptions and measurements of physical impairments and the corresponding percentages of impairments published in the American Medical Association (AMA) Guides to the Evaluation of Permanent Impairment (5th Edition).

(2) For purposes of this section, an employee's diminished future earning capacity shall be a numeric formula based on empirical data and findings that aggregate the average percentage of long-term loss of income resulting from each type of injury for similarly situated employees. The administrative director shall formulate the adjusted rating schedule based on empirical data and findings from the Evaluation of California's Permanent Disability Rating Schedule, Interim Report (December 2003), prepared by the RAND Institute for Civil Justice, and upon data from additional empirical studies.

(c) The Administrative Director shall amend the schedule for the determination of the percentage of permanent disability in accordance with this section at least once every five years. This schedule shall be available for public inspection and, without formal introduction in evidence, shall be prima facie evidence of the percentage of permanent disability to be attributed to each injury covered by the schedule.

(d) The schedule shall promote consistency, uniformity, and objectivity. The schedule and any amendment thereto or revision thereof shall apply prospectively and shall apply to and govern only those permanent disabilities that result from compensable injuries received or occurring on and after the effective date of the adoption of the schedule, amendment or revision, as the fact may be. For compensable claims arising before January 1, 2005, the schedule as revised pursuant to changes made in legislation enacted during the 2003-04 Regular and Extraordinary Sessions shall apply to the determination of permanent disabilities when there has been either no comprehensive medical-legal report or no report by a treating physician indicating

the existence of permanent disability, or when the employer is not required to provide the notice required by Section 4061 to the injured worker.

(e) On or before January 1, 2005, the administrative director shall adopt regulations to implement the changes made to this section by the act that added this subdivision.

Pursuant to this authority, the Administrative Director has adopted this revised Schedule for Rating Permanent Disabilities.

## TABLE OF CONTENTS

| <u>Section</u> |   | <u>Page</u> |
|----------------|---|-------------|
| 1              | Introduction and Instructions                 | 1-1         |
| 2              | Impairment Number/Earning Capacity Adjustment | 2-1         |
| 3              | Occupations and Group Numbers                 | 3-1         |
| 4              | Occupational Variants                         | 4-1         |
| 5              | Occupational Adjustment                       | 5-1         |
| 6              | Age Adjustment                                | 6-1         |
| 7              | Examples                                      | 7-1         |
| 8              | Combined Values Chart                         | 8-1         |

## SECTION 1 - INTRODUCTION AND INSTRUCTIONS

|     |   |      |
|-----|---|------|
| I.  | Introduction .....  | 1-2  |
| II. | Rating Procedures   |      |
|     | A. Use of the AMA Guides .....                              | 1-3  |
|     | B. Calculation of Rating                                    |      |
|     | 1. Impairment Number.....                                   | 1-4  |
|     | 2. Impairment Standard.....                                 | 1-4  |
|     | 3. Adjustment for Diminished Future Earning Capacity .....  | 1-5  |
|     | 4. Occupational Grouping.....                               | 1-8  |
|     | 5. Occupational Variant .....                               | 1-9  |
|     | 6. Occupational Adjustment.....                             | 1-9  |
|     | 7. Age Adjustment .....                                     | 1-9  |
|     | 8. Final Permanent Disability Rating.....                   | 1-9  |
|     | 9. Rating Formula .....                                     | 1-9  |
|     | C. Additional Rating Procedures                             |      |
|     | 1. Formula for Combining Impairments and Disabilities ..... | 1-10 |
|     | 2. Adjusting AMA Impairments and Combining Ratings .....    | 1-11 |
|     | 3. Rating Impairment Based on Pain .....                    | 1-12 |
|     | 4. Rating Psychiatric Impairment .....                      | 1-12 |

## SECTION 1 – INTRODUCTION AND INSTRUCTIONS

### I. INTRODUCTION

This Schedule for Rating Permanent Disabilities (hereinafter referred to as the “Schedule”) has been adopted by the Administrative Director pursuant to Labor Code section 4660. In accordance with this section, the schedule shall be amended at least once every five years.

The extent of permanent disability that results from an industrial injury can be assessed once an employee's condition becomes permanent and stationary. Permanent and stationary is defined as the point in time when the employee has reached maximal medical improvement (MMI), meaning his or her condition is well stabilized and unlikely to change substantially in the next year with or without medical treatment. (AMA Guides, p. 2.)

The calculation of a permanent disability rating is initially based on a evaluating physician’s impairment rating, in accordance with the medical evaluation protocols and rating

procedures set forth in the American Medical Association (AMA) *Guides to the Evaluation of Permanent Impairment, 5<sup>th</sup> Edition* (hereinafter referred to as the “AMA Guides”), which is hereby incorporated by reference.

Initial impairment ratings are consolidated by body part (see *Adjusting AMA Impairments and Combining Ratings* on page 1-11) and converted to a whole person impairment rating (hereinafter referred to as “impairment standard”). The impairment standard is then adjusted to account for diminished future earning capacity, occupation and age at the time of injury to obtain a final permanent disability rating.

A permanent disability rating can range from 0% to 100%. Zero percent signifies no reduction of earning capacity, while 100% represents permanent total disability. A rating between 0% and 100% represents permanent partial disability. Permanent total disability represents a level of disability at which an employee has sustained a total loss of earning

capacity. Some impairments are conclusively presumed to be totally disabling. (Lab. Code, §4662.)

Each rating corresponds to a fixed number of weeks of compensation. Compensation is paid based on the number of weeks and the weekly compensation rate, in accordance with Labor Code section 4658.

## **II RATING PROCEDURES**

### **A. Use of the AMA Guides**

The AMA Guides are used by evaluating physicians to determine the extent of an individual's impairment. The AMA Guides use different scales to describe impairment for different parts and regions of the body. For example, finger impairment is measured using a finger scale that can range from 0% to 100%. Other commonly used scales in the AMA Guides are the hand, upper extremity, foot, lower extremity and whole person scales.

The scales that correspond to different body regions are equivalent to a percentage of the whole person scale; therefore

these scales are converted to the whole person scale to determine the appropriate impairment rating. For example, an upper extremity impairment in the range of 0% to 100% is equivalent to a whole person impairment in the range of 0% to 60%. The upper extremity impairment is converted to a whole person impairment by multiplying by .6.

When combining two or more ratings to create a composite rating, the ratings must be expressed in the same scale. (See *Formula for combining impairments and disabilities* on page 1-10.)

The whole person impairment scale is referred to as WPI (whole person impairment). The upper and lower extremity scales are referred to as UE (upper extremity) and LE (lower extremity), respectively.

A final permanent disability rating is obtained only after the impairment rating obtained from an evaluating physician is adjusted for diminished future earning capacity, occupation and age at the time of injury.

## **B. Calculation of Rating**

This schedule utilizes an impairment number and an impairment standard. The impairment standard is then modified to reflect diminished future earning capacity, the occupation and the age at the time of injury.

### **1. Impairment Number**

The impairment number identifies the body part, organ system and/or nature of the injury and takes the form of “xx.xx.xx.xx”. The first two digits correspond to the chapter number in the AMA Guides which address the body part/organ system. Subsequent pairs of digits further refine the identification of the impairment.

For example, soft tissue lesion of the neck rated under the range of motion (ROM) method would be represented as follows:

|       |      |            |                    |
|-------|------|------------|--------------------|
| 15.   | 01.  | 02.        | 02                 |
| Spine | Neck | ROM method | Soft tissue lesion |

Under Section 2 of the Permanent Disability Rating Schedule, an appropriate impairment number can be found for most impairments.

### **2. Impairment Standard**

After identification of the appropriate disability number(s), the next step is to calculate all relevant impairment standard(s) for the impairments being evaluated. An impairment standard is a whole person impairment rating under the AMA Guides, provided by the evaluating physician.

If an impairment based on an objective medical condition is not addressed by the AMA Guides, physicians should use clinical judgment, comparing measurable impairment resulting from the unlisted objective medical condition to measurable impairment resulting from similar objective medical conditions with similar impairment of function in performing activities of daily living. (AMA Guides, p. 11.)



A single injury can result in multiple impairments of several parts of the body. For example, an injury to the arm could result in limited elbow range of motion and shoulder instability. Multiple impairments must be combined in a prescribed manner to produce a final overall rating. (See, *Adjusting AMA Impairments and Combining Ratings* on page 1-11.)

It is not always appropriate to combine all impairment standards resulting from a single injury, since two or more impairments may have a duplicative effect on the function of the injured body part. The AMA Guides provide some direction on what impairments can be used in combination. Lacking such guidance, it is necessary for the evaluating physician to exercise his or her judgment in avoiding duplication.

The impairment standard is assumed to represent the degree of impairment for a theoretical average worker, i.e., a worker with average occupational demands on all parts of the body and at the average age of 39.

### 3. *Adjustment for Diminished Future Earning Capacity*

The adjustment for diminished future earning capacity (FEC) is applied to the impairment standard in accordance with procedures outlined in section 2 of the Schedule. An impairment must be expressed using the whole person impairment scale before applying the FEC adjustment.

The methodology and FEC Adjustment table is premised on a numerical formula based on empirical data and findings that aggregate the average percentage of long-term loss of income resulting from each type of injury for similarly situated employees. The empirical data was obtained from the interim report, "Evaluation of California's Permanent Disability Rating Schedule (December 2003), prepared by the RAND Institute for Justice. The result is that the injury categories are placed into different ranges (based on the ratio of standard ratings to proportional wage losses). Each of these ranges will generate a FEC adjustment between 10% and 40% for each injury category.

**(a) Summary of Methodology:**

1. RAND data was used to establish the ratio of average California standard ratings to proportional wage losses for each of 22 injury categories. (*Data for Adjusting Disability Ratings to Reflect Diminished Future Earnings and Capacity in Compliance with SB 899*, December 2004, RAND Institute for Civil Justice, Seabury, Reville, Neuhauser.) These ratios are listed in Table B ~~below~~.

2. The range of the ratios for all injury categories is .45 to 1.81. This numeric range was divided into eight evenly spaced ranges. (See the Range of Ratios columns in Table A ~~below~~.) Each injury category will fall within one of these eight ranges, based on its rating/wage loss ratio.

3. A series of FEC adjustment factors were established to correspond to the eight ranges described above. (See column 4 of Table A ~~below~~.) The smallest adjustment factor is 1.1000 which will result in a 10% increase when applied to the AMA whole person impairment rating. The largest is 1.4000 which will result in a 40% increase. The six intermediate adjustment

factors are determined by dividing the difference between 1.1 and 1.4 into seven equal amounts.

4. The formula for calculating the maximum and minimum adjustment factors is  $([1.81/a] \times .1) + 1$  where  $a$  equals the minimum or maximum rating/loss ratio from Table B ~~below~~. AMA whole person impairment ratings for injury categories that correspond to a greater relative loss of earning capacity will receive a higher FEC adjustment. For example, a psychiatric impairment receives a higher FEC adjustment because RAND data shows that a relatively high wage loss corresponds to the average psychiatric standard permanent disability rating. A hand impairment would receive a lower FEC adjustment because RAND data shows a relatively low wage loss relative to the average psychiatric standard permanent disability rating.

The FEC rank and adjustment factors that correspond to relative earnings for the eight evenly-divided ranges are listed ~~below~~ in Table A. The ratio of earnings to losses and the corresponding rank for each injury category are listed ~~below~~ in Table B. To adjust an impairment standard for earning

capacity, multiply it by the appropriate adjustment factor from Table B A and round to the nearest whole number percentage. Alternatively, a table is provided at the end of Section 2 of the Schedule which provides the earning capacity adjustment for all impairment standards and FEC ranks.

Table A

| Range of Ratios |       |          |                   |
|-----------------|-------|----------|-------------------|
| Low             | High  | FEC Rank | Adjustment Factor |
| 1.647           | 1.810 | One      | 1.100000          |
| 1.476           | 1.646 | Two      | 1.1429857         |
| 1.305           | 1.475 | Three    | 1.185714          |
| 1.134           | 1.304 | Four     | 1.2286571         |
| 0.963           | 1.133 | Five     | 1.271429          |
| 0.792           | 0.962 | Six      | 1.3143286         |
| 0.621           | 0.791 | Seven    | 1.357143          |
| 0.450           | 0.620 | Eight    | 1.400000          |

Table B

| Part of the Body        | Ratio of Rating over Losses | FEC Rank |
|-------------------------|-----------------------------|----------|
| Hand/fingers            | 1.810                       | One      |
| Vision                  | 1.810                       | One      |
| Knee                    | 1.570                       | Two      |
| Other                   | 1.530                       | Two      |
| Ankle                   | 1.520                       | Two      |
| Elbow                   | 1.510                       | Two      |
| Loss of grasping power  | 1.280                       | Four     |
| Wrist                   | 1.210                       | Four     |
| Toe(s)                  | 1.110                       | Five     |
| Spine Thoracic          | 1.100                       | Five     |
| General lower extremity | 1.100                       | Five     |
| Spine Lumbar            | 1.080                       | Five     |
| Spine Cervical          | 1.060                       | Five     |
| Hip                     | 1.030                       | Five     |
| General upper extremity | 1.000                       | Five     |
| Heart disease           | 0.970                       | Five     |
| General Abdominal       | 0.950                       | Six      |
| PT head syndrome        | 0.930                       | Six      |
| Lung disease            | 0.790                       | Seven    |
| Shoulder                | 0.740                       | Seven    |
| Hearing                 | 0.610                       | Eight    |
| Psychiatric             | 0.450                       | Eight    |

The FEC Rank for the "Other" category is based on average ratings and proportional earning losses for the following impairments:

Impaired rib cage  
Cosmetic disfigurement  
General chest impairment  
Facial disfigurement or impairment  
Impaired mouth or jaw  
Speech impairment  
Impaired nose  
Impaired nervous system  
Vertigo  
Impaired smell  
Paralysis  
Mental Deterioration  
Epilepsy  
Skull aperture

#### **4. *Occupational Grouping***

After the rating is adjusted for diminished future earning capacity, it is then modified to take into account the requirements of the specific occupation that the employee was engaged in when injured.

The Schedule divides the labor market into 45 numbered occupational groups. Each group is assigned a three-digit code called an occupational group number. The first digit of the code refers to the arduousness of the duties, ranking jobs

from 1 to 5 in ascending order of physical arduousness; the second digit separates occupations into broad categories sharing common characteristics; the third digit differentiates between occupations within these groups. (See Occupational Group Chart in Section 3B of the Schedule for a breakdown of all occupational groups.)

To identify the appropriate occupational group number, look up the occupation in the list contained in Section 3A of the Schedule. Each job title is listed along with its corresponding group number. The appropriate occupation can generally be found listed under a scheduled or alternative job title. If the occupation cannot be found, an appropriate occupational group is determined by analogy to a listed occupation(s) based on a comparison of duties. (The table Occupational Group Characteristics in Section 3C of the Schedule provides a description of each occupational group to facilitate the determination of a group number.)

## **5. Occupational Variant**

Section 4 of the Schedule contains tables that cross-reference impairment numbers and occupational group numbers to produce an "occupational variant," which is expressed as a letter. These tables are designed so that variant "F" represents average demands on the injured body part for the particular impairment being rated, with letters "E", "D" and "C" representing progressively lesser demands, and letters "G" through "J" reflecting progressively higher demands.

## **6. Occupational Adjustment**

After the rating has been adjusted for diminished future earning capacity, the rating is adjusted next for occupation by reference to tables found in Section 5 of the Schedule. To use this section, find the earning capacity-adjusted rating in the column entitled "Rating" and then read across the table to the column headed with the appropriate occupational variant. The intersection of the row and column contains the occupation-adjusted rating.

## **7. Age Adjustment**

Finally, the rating is adjusted to account for the worker's age on the date of injury. Section 6 of the Schedule contains tables for determining the age adjustment. To use this section, find the occupation-adjusted rating in the column entitled "Rating" and read across the table to the column with the injured worker's age on the date of injury.

## **8. Final Permanent Disability Rating**

The number identified on the age adjustment table represents the final overall permanent disability rating percentage for a single impairment. (See Subdivisions C.1. and C.2. on pages 10 and 11 to combine multiple impairments and disabilities.)

## **9. Rating Formula**

The final rating is generally expressed as a rating formula, as in the following example:

15.01.02.02 – 8 - [5]10 - 470H – 13 – 11%

Each component is described below:

15.01.02.02 – Impairment number for cervical spine,  
soft tissue lesion

8% – Impairment standard

10% – Rating after adjustment for earning capacity  
based on FEC rank 5

470 – Occupational group number for Furniture  
assembler, heavy

H – Occupational variant

13% – Rating after occupational adjustment

11% – Rating after adjustment for age of 30

## C. Additional Rating Procedures

### 1. *Formula for Combining Impairments and Disabilities*

Impairments and disabilities are generally combined using the following formula where “a” and “b” are the decimal equivalents of the impairment or disability percentages:

$$a + b(1-a)$$

For example, the result of combining 15% and 25% would be calculated as follows:

$$.25 + .15(1-.25)$$

$$.25 + .15(.75)$$

$$.25 + .1125 = .3625 = 36\%$$

Impairment ratings must be expressed in the same scale to be combined. For example, it would be inappropriate to combine 15% UE with 20% WPI. Likewise, one cannot combine an impairment rating with a disability rating.

Except as specified in the section below, when combining three or more ratings on the same scale into a single rating, combine the two largest ratings first, rounding the result to the nearest whole percent. Then combine that result with the next larger rating, and so on, until all ratings are combined. Each successive calculation result must be rounded before performing the next.

## 2. *Adjusting AMA Impairments and Combining Ratings*

As used here, the term “adjusting” refers to adjusting an AMA impairment rating for diminished future earning capacity, occupation and age.

Except as specified below, all impairments are converted to the whole person scale, adjusted, and then combined to determine a final overall disability rating.

Multiple impairments involving the hand or foot are combined using standard AMA Guides protocols. The resulting impairment is converted to whole person impairment and adjusted before being combined with other impairments of the same extremity.

Multiple impairments such as those involving a single part of an extremity, e.g. two impairments involving a shoulder such as shoulder instability and limited range of motion, are combined at the upper extremity level, then converted to whole person impairment and adjusted before being combined with other parts of the same extremity. Note that some impairments

of the same body part may not be combined because of duplication.

Impairments with disability numbers in the 16.01 and 17.01 series are converted to whole person impairment and adjusted before being combined with any other impairment of the same extremity.

Impairments of an individual extremity are adjusted and combined at the whole person level with other impairments of the same extremity before being combined with impairments of other body parts. For example, an impairment of the left knee and ankle would be combined before further combination with an impairment of the opposing leg or the back.

The composite rating for an extremity (after adjustments) may not exceed the amputation value of the extremity adjusted for earning capacity, occupation and age. The occupational variant used to rate an entire extremity shall be the highest variant of the involved individual impairments.

### **3. *Rating Impairment Based on Pain***

Pursuant to Chapter 18 of the AMA Guides, a whole person impairment rating based on the body or organ rating system of the AMA Guides (Chapters 3 through 17) may be increased by 0% up to 3% WPI if the burden of the worker's condition has been increased by pain-related impairment in excess of the pain component already incorporated in the WPI rating in Chapters 3-17. (AMA Guides, p. 573.)

A physician may perform a formal pain-related impairment assessment if deemed necessary to justify the increase of an impairment rating based on the body or organ rating system. (See Section 18.3f of the AMA Guides starting on page 575.)

The maximum allowance for pain resulting from a single injury is 3% WPI regardless of the number of impairments resulting from that injury.

The addition of up to 3% for pain is to be made at the whole person level. For example, if an elbow impairment were

to be increased by 3% for pain, the rating for the elbow would first be converted to the whole person scale, and then increased. The resultant rating would then be adjusted for diminished future earning capacity, occupation and age.

In the case of multiple impairments, the evaluating physician shall, when medically justifiable, attribute the pain in whole number increments to the appropriate impairments. The additional percentage added for pain will be applied to the respective impairments as described in the preceding paragraph.

### **4. *Rating Psychiatric Impairment***

Psychiatric impairment shall be evaluated by the physician using the Global Assessment of Function (GAF) scale shown below. The resultant GAF score shall then be converted to a whole person impairment rating using the GAF conversion table below.



**(a) Instructions for Determining a GAF score:**

**STEP 1:** Starting at the top level of the GAF scale, evaluate each range by asking "is either the individual's symptom severity OR level of functioning worse than what is indicated in the range description?"

**STEP 2:** Keep moving down the scale until the range that best matches the individual's symptom severity OR the level of functioning is reached, whichever is worse.

**STEP 3:** Look at the next lower range as a double-check against having stopped prematurely. This range should be too severe on both symptom severity and level of functioning. If it is, the appropriate range has been reached (continue with step 4). If not, go back to step 2 and continue moving down the scale.

**STEP 4:** To determine the specific GAF rating within the selected 10 point range, consider whether the individual is functioning at the higher or lower end of the 10 point range. For example, consider an individual who hears voices that do not influence his behavior (e.g., someone with long-standing Schizophrenia who accepts his hallucinations as part of his illness). If the voices occur relatively infrequently (once a week or less) a rating of 39 or 40 might be most appropriate. In contrast, if the individual hears voices almost continuously, a rating of 31 or 32 would be more appropriate.

**(b) Global Assessment of Functioning (GAF) Scale**

Consider psychological, social, and occupational functioning on a hypothetical continuum of mental health-illness. Do not include impairment in functioning due to physical (or environmental) limitations.

**Code**

**91 – 100** Superior functioning in a wide range of activities, life's problems never seem to get out of hand, is sought out by others because of his or her many positive qualities. No symptoms.

**81 – 90** Absent or minimal symptoms (e.g., mild anxiety before an exam), good functioning in all areas, interested and involved in a wide range of activities, socially effective, generally satisfied with life, no more than everyday problems or concerns (e.g., an occasional argument with family members).

**71 – 80** If symptoms are present, they are transient and expectable reactions to psychosocial stressors (e.g., difficulty concentrating after family argument); no more than slight impairment in social, occupational, or school functioning (e.g., temporarily falling behind in schoolwork).

**61 – 70** Some mild symptoms (e.g., depressed mood and mild insomnia) OR some difficulty in social, occupational, or school functioning (e.g., occasional truancy, or theft within the household), but generally functioning pretty well, has some meaningful interpersonal relationships.

**51 – 60** Moderate symptoms (e.g., flat affect and circumstantial speech, occasional panic attacks) OR moderate difficulty in social, occupational, or school functioning (e.g., few friends, conflicts with peers or co-workers).

**41 – 50** Serious symptoms (e.g., suicidal ideation, severe obsessional rituals, frequent shoplifting) OR any serious impairment in social, occupational, or school functioning (e.g., no friends, unable to keep a job).

**31 – 40** Some impairment in reality testing or communication (e.g., speech is at times illogical, obscure, or irrelevant) OR major impairment in several areas, such as work or school, family relations, judgment thinking, or mood (e.g., depressed man avoids friends, neglects family, and is unable to work; child frequently beats up younger children, is defiant at home and is failing at school).

**21 – 30** Behavior is considerably influenced by delusions or hallucinations OR serious impairment in communication or judgment (e.g., sometimes incoherent, acts grossly inappropriately, suicidal preoccupation) OR inability to function in almost all areas (e.g., stays in bed all day; no job, home or friends).

**11 – 20** Some danger of hurting self or others (e.g., suicide attempts without clear expectation of death; frequently violent; manic excitement) OR occasionally fails to maintain minimal personal

hygiene (e.g., smears feces) OR gross impairment in communication (e.g., largely incoherent or mute).

**1 – 10** Persistent danger of severely hurting self or others (e.g., recurrent violence) OR persistent inability to maintain minimal personal hygiene OR serious suicidal act with clear expectation of death.

**0** Inadequate information.

**(c) Converting the GAF Score to a Whole Person**

**Impairment**

Locate the GAF score in the table below and read across to determine the corresponding whole person impairment (WPI) rating.

| GAF | WPI |
|-----|-----|
| 1   | 90  |
| 2   | 89  |
| 3   | 89  |
| 4   | 88  |
| 5   | 87  |
| 6   | 87  |
| 7   | 86  |
| 8   | 85  |
| 9   | 84  |
| 10  | 84  |
| 11  | 83  |
| 12  | 82  |
| 13  | 82  |
| 14  | 81  |
| 15  | 80  |
| 16  | 80  |
| 17  | 79  |
| 18  | 78  |
| 19  | 78  |
| 20  | 77  |
| 21  | 76  |
| 22  | 76  |
| 23  | 75  |
| 24  | 74  |
| 25  | 73  |
| 26  | 73  |
| 27  | 72  |
| 28  | 71  |
| 29  | 71  |
| 30  | 70  |
| 31  | 69  |
| 32  | 67  |
| 33  | 65  |

| GAF | WPI |
|-----|-----|
| 34  | 63  |
| 35  | 61  |
| 36  | 59  |
| 37  | 57  |
| 38  | 55  |
| 39  | 53  |
| 40  | 51  |
| 41  | 48  |
| 42  | 46  |
| 43  | 44  |
| 44  | 42  |
| 45  | 40  |
| 46  | 38  |
| 47  | 36  |
| 48  | 34  |
| 49  | 32  |
| 50  | 30  |
| 51  | 29  |
| 52  | 27  |
| 53  | 26  |
| 54  | 24  |
| 55  | 23  |
| 56  | 21  |
| 57  | 20  |
| 58  | 18  |
| 59  | 17  |
| 60  | 15  |
| 61  | 14  |
| 62  | 12  |
| 63  | 11  |
| 64  | 9   |
| 65  | 8   |
| 66  | 6   |

| GAF | WPI |
|-----|-----|
| 67  | 5   |
| 68  | 3   |
| 69  | 2   |
| 70  | 0   |
| 71  | 0   |
| 72  | 0   |
| 73  | 0   |
| 74  | 0   |
| 75  | 0   |
| 76  | 0   |
| 77  | 0   |
| 78  | 0   |
| 79  | 0   |
| 80  | 0   |
| 81  | 0   |
| 82  | 0   |
| 83  | 0   |
| 84  | 0   |
| 85  | 0   |
| 86  | 0   |
| 87  | 0   |
| 88  | 0   |
| 89  | 0   |
| 90  | 0   |
| 91  | 0   |
| 92  | 0   |
| 93  | 0   |
| 94  | 0   |
| 95  | 0   |
| 96  | 0   |
| 97  | 0   |
| 98  | 0   |
| 99  | 0   |

| GAF | WPI |
|-----|-----|
| 100 | 0   |

## SECTION 2 – IMPAIRMENT NUMBER/EARNING CAPACITY ADJUSTMENT

| <u>Category</u> | <u>Body Part/Function</u>                                   | <u>Page</u> |
|-----------------|---|-------------|
| 03              | Cardiovascular System – Heart & Aorta .....                 | 2-2         |
| 04              | Cardiovascular System – Systemic & Pulmonary Arteries ..... | 2-2         |
| 05              | Respiratory System .....                                    | 2-2         |
| 06              | Digestive System .....                                      | 2-2         |
| 07              | Urinary & Reproductive Systems .....                        | 2-2         |
| 08              | Skin .....  | 2-2         |
| 09              | Hematopoietic System .....                                  | 2-2         |
| 10              | Endocrine System .....                                      | 2-2         |
| 11              | Ear, Nose & Throat .....                                    | 2-2         |
| 12              | Visual System .....   | 2-2         |
| 13              | Central & Peripheral Nervous System .....                   | 2-2         |
| 14              | Mental & Behavioral Disorders .....                         | 2-3         |
| 15              | Spine .....   | 2-3         |
| 16              | Upper Extremities .....                                     | 2-4         |
| 17              | Lower Extremities .....                                     | 2-4         |
| 18              | Pain .....  | 2-5         |

Use this section to determine an impairment number and a future earning capacity (FEC) rank for each body part being evaluated. Then use the table at the end of this section to adjust the impairment standard for earning capacity. If the impairment is not addressed by the AMA Guides, choose the closest applicable impairment number, and replace the last pair of digits with the number 99. For example, a condition that was analogized to a spinal cord disorder affecting the respiratory system (impairment no. 13.10.01.00) would take the impairment number 13.10.01.99.

| <u># Impairment</u>  | <u>FEC Rank</u> | <u>Impairment</u>                              |
|--|-----------------|--|
| 03 – CARDIOVASCULAR SYSTEM – HEART & AORTA                 |                 |  |
| 03.01.00.00  | 5               | Valvular Heart Disease                         |
| 03.02.00.00  | 5               | Coronary Heart Disease                         |
| 03.03.00.00  | 5               | Congenital Heart Disease                       |
| 03.04.00.00  | 5               | Cardiomyopathies                               |
| 03.05.00.00  | 5               | Pericardial Heart Disease                      |
| 03.06.00.00  | 5               | Arrhythmia                                     |
| 04 – CARDIOVASCULAR SYSTEM – SYSTEMIC & PULMONARY ARTERIES |                 |  |
| 04.01.00.00  | 5               | Hypertensive Cardiovascular Disease            |
| 04.02.00.00  | 5               | Aortic Disease                                 |
| 04.03.01.00  | 5               | Peripheral Vascular Disease, Upper Extremities |
| 04.03.02.00  | 5               | Peripheral Vascular Disease, Lower Extremities |
| 04.04.00.00  | 7               | Pulmonary Circulation Disease                  |
| 05 – RESPIRATORY SYSTEM                                    |                 |  |
| 05.01.00.00  | 7               | Asthma   |
| 05.02.00.00  | 7               | Respiratory Disorders                          |
| 05.03.00.00  | 7               | Cancer   |
| 06 – DIGESTIVE SYSTEM                                      |                 |  |
| 06.01.00.00  | 6               | Upper Digestive Tract                          |
| 06.02.00.00  | 6               | Colon, Rectum, Anus                            |
| 06.03.00.00  | 6               | Enterocutaneous Fistulas                       |
| 06.04.00.00  | 6               | Liver/Biliary Tract                            |
| 06.05.00.00  | 6               | Hernias  |
| 07 – URINARY & REPRODUCTIVE SYSTEMS                        |                 |  |
| 07.01.00.00  | 2               | Upper Urinary Tract                            |
| 07.02.00.00  | 2               | Urinary Diversion                              |
| 07.03.00.00  | 2               | Bladder  |
| 07.04.00.00  | 2               | Urethra  |
| 07.05.00.00  | 2               | Reproductive System                            |

| <u>Impairment#</u>                       | <u>FEC Rank</u> | <u>Impairment</u>  |
|--|-----------------|--|
| 08 – SKIN                                |                 |  |
| 08.01.00.00                              | 2               | Disfigurement  |
| 08.02.00.00                              | 2               | Scars & Skin Grafts  |
| 08.03.00.00                              | 2               | Contact Dermatitis   |
| 08.04.00.00                              | 2               | Latex Allergy  |
| 08.05.00.00                              | 2               | Skin Cancer  |
| 09 – HEMATOPOIETIC SYSTEM                |                 |  |
| 09.01.00.00                              | 2               | Hematopoietic Impairment                                   |
| 10 – ENDOCRINE SYSTEM                    |                 |  |
| 10.01.00.00                              | 2               | Diabetes Mellitus  |
| 11 – EAR, NOSE & THROAT                  |                 |  |
| 11.01.01.00                              | 8               | Ear – Hearing Impairment                                   |
| 11.01.02.00                              | 8               | Ear – Vestibular Disorder                                  |
| 11.02.01.00                              | 2               | Face/cosmetic  |
| 11.02.02.00                              | 2               | Face/eye/cosmetic  |
| 11.03.01.00                              | 2               | Nose/Throat/Related Structures – Respiration               |
| 11.03.02.00                              | 2               | Nose/Throat/Related Structures – Mastication & Deglutition |
| 11.03.03.00                              | 2               | Nose/Throat/Related Structures – Olfaction & Taste         |
| 11.03.04.00                              | 2               | Nose/Throat/Related Structures – Voice & Speech            |
| 12 – VISUAL SYSTEM                       |                 |  |
| 12.01.00.00                              | 1               | Visual Acuity  |
| 12.02.00.00                              | 1               | Visual Field   |
| 12.03.00.00                              | 1               | Visual System  |
| 13 – CENTRAL & PERIPHERAL NERVOUS SYSTEM |                 |  |
| 13.01.00.00                              | 6               | Consciousness Disorder                                     |
| 13.02.00.00                              | 2               | Episodic Neurologic Disorder                               |
| 13.03.00.00                              | 6               | Arousal Disorder   |
| 13.04.00.00                              | 2               | Cognitive Impairment                                       |

| <u># Impairment</u> | <u>FEC Rank</u> | <u>Impairment</u>   |
|---------------------|-----------------|---|
| 13.05.00.00         | 2               | Language Disorder   |
| 13.06.00.00         | 8               | Behavioral/Emotional Disorder                                   |
| 13.07.01.00         | 2               | Cranial Nerve – Olfactory                                       |
| 13.07.02.00         | 1               | Cranial Nerve – Optic   |
| 13.07.03.00         | 2               | Cranial Nerve – Oculomotor, Trochlear & Abducens                |
| 13.07.04.00         | 2               | Cranial Nerve – Trigeminal                                      |
| 13.07.05.00         | 2               | Cranial Nerve – Facial  |
| 13.07.06.01         | 8               | Cranial Nerve – Vestibulocochlear – Vertigo                     |
| 13.07.06.02         | 8               | Cranial Nerve – Vestibulocochlear – Tinnitus                    |
| 13.07.07.00         | 2               | Cranial Nerve – Glossopharyngeal & Vagus                        |
| 13.07.08.00         | 2               | Cranial Nerve – Spinal Accessory                                |
| 13.07.09.00         | 2               | Cranial Nerve – Hypoglossal                                     |
| 13.08.00.00         | 5               | Station, Gait, Movement   |
| 13.09.00.00         | 5               | Upper Extremities   |
| 13.10.01.00         | 7               | Spinal Cord Disorder – Respiratory                              |
| 13.10.02.00         | 2               | Spinal Cord Disorder – Urinary                                  |
| 13.10.03.00         | 2               | Spinal Cord Disorder – Anorectal                                |
| 13.10.04.00         | 2               | Spinal Cord Disorder – Sexual                                   |
| 13.11.01.01         | 5               | Chronic Pain – Upper Extremities – Causalgia                    |
| 13.11.01.02         | 5               | Chronic Pain – Upper Extremities – Post-traumatic Neuralgia     |
| 13.11.01.03         | 5               | Chronic Pain – Upper Extremities – Reflex Sympathetic Dystrophy |
| 13.11.02.01         | 5               | Chronic Pain – Lower Extremities – Causalgia                    |
| 13.11.02.02         | 5               | Chronic Pain – Lower Extremities – Post-traumatic Neuralgia     |
| 13.11.02.03         | 5               | Chronic Pain – Lower Extremities – Reflex Sympathetic Dystrophy |
| 13.12.01.01         | 5               | Peripheral Nerve System – Spine – Sensory                       |
| 13.12.01.02         | 5               | Peripheral Nerve System – Spine – Motor                         |
| 13.12.02.01         | 5               | Peripheral Nerve System – Upper Extremity – Sensory             |
| 13.12.02.02         | 5               | Peripheral Nerve System – Upper Extremity – Motor               |
| 13.12.03.01         | 5               | Peripheral Nerve System – Lower Extremity – Sensory             |
| 13.12.03.02         | 5               | Peripheral Nerve System – Lower Extremity – Motor               |

| <u>Impairment#</u>                  | <u>FEC Rank</u> | <u>Impairment</u>   |
|-------------------------------------|-----------------|---|
| 14 – MENTAL & BEHAVIORIAL DISORDERS |                 |   |
| 14.01.00.00                         | 8               | Psychiatric – Mental and Behavioral                           |
| 15 – SPINE                          |                 |   |
| 15.01.01.00                         | 5               | Cervical – Diagnosis-related Estimate (DRE)                   |
| 15.01.02.01                         | 5               | Cervical – Range of Motion (ROM) – Fracture                   |
| 15.01.02.02                         | 5               | Cervical – Range of Motion – Soft Tissue Lesion               |
| 15.01.02.03                         | 5               | Cervical – Range of Motion – Spondylolysis, no operation      |
| 15.01.02.04                         | 5               | Cervical – Range of Motion – Stenosis, with operation         |
| 15.01.02.05                         | 5               | Cervical – Range of Motion – Nerve Root/Spinal Cord- Sensory  |
| 15.01.02.06                         | 5               | Cervical – Range of Motion – Nerve Root/Spinal Cord – Motor   |
| 15.02.01.00                         | 5               | Thoracic – Diagnosis-related Estimate                         |
| 15.02.02.01                         | 5               | Thoracic – Range of Motion – Fracture                         |
| 15.02.02.02                         | 5               | Thoracic – Range of Motion – Soft Tissue Lesion               |
| 15.02.02.03                         | 5               | Thoracic – Range of Motion – Spondylolysis, no operation      |
| 15.02.02.04                         | 5               | Thoracic – Range of Motion – Stenosis, with operation         |
| 15.02.02.05                         | 5               | Thoracic – Range of Motion – Nerve Root/Spinal Cord – Sensory |
| 15.02.02.06                         | 5               | Thoracic – Range of Motion – Nerve Root/Spinal Cord – Motor   |
| 15.03.01.00                         | 5               | Lumbar – Diagnosis-related Estimate                           |
| 15.03.02.01                         | 5               | Lumbar – Range of Motion – Fracture                           |
| 15.03.02.02                         | 5               | Lumbar – Range of Motion – Soft Tissue Lesion                 |
| 15.03.02.03                         | 5               | Lumbar – Range of Motion – Spondylolysis, no operation        |
| 15.03.02.04                         | 5               | Lumbar – Range of Motion – Stenosis, with operation           |
| 15.03.02.05                         | 5               | Lumbar – Range of Motion – Nerve Root/Spinal Cord – Sensory   |
| 15.03.02.06                         | 5               | Lumbar – Range of Motion – Nerve Root/Spinal Cord – Motor     |
| 15.04.01.00                         | 5               | Corticospinal Tract – One Upper Extremity                     |
| 15.04.02.00                         | 5               | Corticospinal Tract – Two Upper Extremities                   |
| 15.04.03.00                         | 5               | Corticospinal Tract – Station/Gait Disorder                   |

| <u># Impairment</u>    | <u>FEC Rank</u> | <u>Impairment</u>   |
|------------------------|-----------------|---|
| 15.04.04.00            | 2               | Corticospinal Tract – Bladder Impairment                                |
| 15.04.05.00            | 2               | Corticospinal Tract – Anorectal Impairment                              |
| 15.04.06.00            | 2               | Corticospinal Tract – Sexual Impairment                                 |
| 15.04.07.00            | 7               | Corticospinal Tract – Respiratory Impairment                            |
| 15.05.01.00            | 5               | Pelvic – Healed Fracture  |
| 15.05.02.00            | 5               | Pelvic – Healed Fracture with Displacement                              |
| 15.05.03.00            | 5               | Pelvic – Healed Fracture with Deformity                                 |
| 16 – UPPER EXTREMITIES |                 |   |
| 16.01.01.01            | 5               | Arm – Amputation/Deltoid insertion proximally                           |
| 16.01.01.02            | 5               | Arm – Amputation/Bicipital insertion proximally                         |
| 16.01.01.03            | 5               | Arm – Amputation/Wrist proximally                                       |
| 16.01.01.04            | 5               | Arm – Amputation/All fingers at MP joint proximally                     |
| 16.01.02.01            | 5               | Arm – Peripheral neuropathy – Brachial plexus                           |
| 16.01.02.02            | 4               | Arm – Peripheral neuropathy –<br>Entrapment/compression – Carpal tunnel |
| 16.01.02.03            | 5               | Arm – Peripheral neuropathy –<br>Entrapment/compression – Other         |
| 16.01.02.04            | 5               | Arm – Peripheral neuropathy – CRPS I                                    |
| 16.01.02.05            | 5               | Arm – Peripheral neuropathy – CRPS II                                   |
| 16.01.03.00            | 5               | Arm – Peripheral vascular   |
| 16.01.04.00            | 4               | Arm – Grip/pinch strength   |
| 16.01.05.00            | 5               | Arm – Other   |
| 16.02.01.00            | 7               | Shoulder – Range of motion  |
| 16.02.02.00            | 7               | Shoulder – Other  |
| 16.03.01.00            | 2               | Elbow/forearm – Range of motion   |
| 16.03.02.00            | 2               | Elbow/forearm – Other   |
| 16.04.01.00            | 4               | Wrist – Range of motion   |
| 16.04.02.00            | 4               | Wrist – Other   |
| 16.05.01.00            | 1               | Hand/multiple fingers – Range of motion                                 |
| 16.05.02.00            | 1               | Hand/multiple fingers – Amputation                                      |
| 16.05.03.00            | 1               | Hand/multiple fingers – Sensory   |
| 16.05.04.00            | 1               | Hand/multiple fingers – Other   |
| 16.06.01.01            | 1               | Thumb – Range of motion   |
| 16.06.01.02            | 1               | Thumb – Amputation  |

| <u>Impairment#</u>     | <u>FEC Rank</u> | <u>Impairment</u>                                  |
|------------------------|-----------------|--|
| 16.06.01.03            | 1               | Thumb – Sensory                                    |
| 16.06.01.04            | 1               | Thumb – Other                                      |
| 16.06.02.01            | 1               | Index – Range of motion                            |
| 16.06.02.02            | 1               | Index – Amputation                                 |
| 16.06.02.03            | 1               | Index – Sensory                                    |
| 16.06.02.04            | 1               | Index – Other                                      |
| 16.06.03.01            | 1               | Middle – Range of motion                           |
| 16.06.03.02            | 1               | Middle – Amputation                                |
| 16.06.03.03            | 1               | Middle – Sensory                                   |
| 16.06.03.04            | 1               | Middle – Other                                     |
| 16.06.04.01            | 1               | Ring – Range of motion                             |
| 16.06.04.02            | 1               | Ring – Amputation                                  |
| 16.06.04.03            | 1               | Ring – Sensory                                     |
| 16.06.04.04            | 1               | Ring – Other                                       |
| 16.06.05.01            | 1               | Little – Range of motion                           |
| 16.06.05.02            | 1               | Little – Amputation                                |
| 16.06.05.03            | 1               | Little – Sensory                                   |
| 16.06.05.04            | 1               | Little – Other                                     |
| 17 – LOWER EXTREMITIES |                 |  |
| 17.01.01.00            | 5               | Leg – Limb Length                                  |
| 17.01.02.01            | 5               | Leg – Amputation/Knee proximally                   |
| 17.01.02.02            | 5               | Leg – Amputation/MTP joint proximally              |
| 17.01.03.00            | 5               | Leg – Skin Loss                                    |
| 17.01.04.00            | 5               | Leg – Peripheral Nerve                             |
| 17.01.05.00            | 5               | Leg – Vascular                                     |
| 17.01.06.00            | 5               | Leg – Causalgia/RSD                                |
| 17.01.07.00            | 5               | Leg – Gait Derangement                             |
| 17.01.08.00            | 5               | Leg – Other  |
| 17.02.10.00            | 5               | Pelvis – Diagnosis-based estimate (DBE) – Fracture |
| 17.03.01.00            | 5               | Hip – Muscle Atrophy                               |
| 17.03.02.00            | 5               | Hip – Ankylosis                                    |
| 17.03.03.00            | 5               | Hip – Arthritis                                    |
| 17.03.04.00            | 5               | Hip – Range of Motion                              |



| <u># Impairment</u> | <u>FEC Rank</u> | <u>Impairment</u>  |
|---------------------|-----------------|--|
| 17.03.05.00         | 5               | Hip – Muscle Strength  |
| 17.03.06.00         | 5               | Hip – Other  |
| 17.03.10.01         | 5               | Hip – Diagnosis-based Estimate – Hip/Replacement               |
| 17.03.10.02         | 5               | Hip – Diagnosis-based Estimate – Hip/Femoral Neck Fracture     |
| 17.03.10.03         | 5               | Hip – Diagnosis-based Estimate – Hip/Arthroplasty              |
| 17.03.10.04         | 5               | Hip – Diagnosis-based Estimate – Trochanteric bursitis         |
| 17.04.10.00         | 5               | Femur – Diagnosis-based Estimate – Fracture                    |
| 17.05.01.00         | 2               | Knee – Muscle Atrophy  |
| 17.05.02.00         | 2               | Knee – Ankylosis   |
| 17.05.03.00         | 2               | Knee – Arthritis   |
| 17.05.04.00         | 2               | Knee – Range of Motion   |
| 17.05.05.00         | 2               | Knee – Muscle Strength   |
| 17.05.06.00         | 2               | Knee – Other   |
| 17.05.10.01         | 2               | Knee – Diagnosis-based Estimate – Subluxation/dislocation      |
| 17.05.10.02         | 2               | Knee – Diagnosis-based Estimate – Fracture                     |
| 17.05.10.03         | 2               | Knee – Diagnosis-based Estimate – Patellectomy                 |
| 17.05.10.04         | 2               | Knee – Diagnosis-based Estimate – Meniscectomy                 |
| 17.05.10.05         | 2               | Knee – Diagnosis-based Estimate – Cruciate/collateral Ligament |
| 17.05.10.06         | 2               | Knee – Diagnosis-based Estimate – Plateau Fracture             |
| 17.05.10.07         | 2               | Knee – Diagnosis-based Estimate – Supra/Intercondylar Fracture |
| 17.05.10.08         | 2               | Knee – Diagnosis-based Estimate – Total Replacement            |
| 17.05.10.09         | 2               | Knee – Diagnosis-based Estimate – Proximal Tibial osteotomy    |
| 17.06.10.00         | 5               | Tibia/fibula – Diagnosis-based Estimate – fracture             |
| 17.07.01.00         | 2               | Ankle – Muscle Atrophy   |
| 17.07.02.00         | 2               | Ankle – Ankylosis  |
| 17.07.03.00         | 2               | Ankle – Arthritis  |

| <u>Impairment#</u> | <u>FEC Rank</u> | <u>Impairment</u>  |
|--------------------|-----------------|--|
| 17.07.04.00        | 2               | Ankle – Range of Motion                                    |
| 17.07.05.00        | 2               | Ankle – Muscle Strength                                    |
| 17.07.06.00        | 2               | Ankle – Other  |
| 17.07.10.01        | 2               | Ankle – Diagnosis-based Estimate – Ligament Instability    |
| 17.07.10.02        | 2               | Ankle – Diagnosis-based Estimate – Fracture                |
| 17.08.01.00        | 2               | Foot – Muscle Atrophy                                      |
| 17.08.02.00        | 2               | Foot – Ankylosis   |
| 17.08.03.00        | 2               | Foot – Arthritis   |
| 17.08.04.00        | 2               | Foot – Range of Motion                                     |
| 17.08.05.00        | 2               | Foot – Muscle Strength                                     |
| 17.08.06.00        | 2               | Foot – Other   |
| 17.08.10.01        | 2               | Foot – Diagnosis-based Estimate – Hind Foot Fracture       |
| 17.08.10.02        | 2               | Foot – Diagnosis-based Estimate – Loss of Tibia            |
| 17.08.10.03        | 2               | Foot – Diagnosis-based Estimate – Intra-articular Fracture |
| 17.08.10.04        | 2               | Foot – Diagnosis-based Estimate – Calvus                   |
| 17.08.10.05        | 2               | Foot – Diagnosis-based Estimate – Rocker Bottom            |
| 17.08.10.06        | 2               | Foot – Diagnosis-based Estimate – Avascular Necrosis       |
| 17.08.10.07        | 2               | Foot – Diagnosis-based Estimate – Metatarsal fracture      |
| 17.09.01.00        | 5               | Toes – Muscle Atrophy                                      |
| 17.09.02.00        | 5               | Toes – Ankylosis   |
| 17.09.03.00        | 5               | Toes – Arthritis   |
| 17.09.04.00        | 5               | Toes – Range of Motion                                     |
| 17.09.05.00        | 5               | Toes – Muscle Strength                                     |
| 17.09.06.00        | 5               | Toes – Amputation  |
| 17.09.07.00        | 5               | Toes – Other   |
| 18                 |                 | PAIN   |
| 18.00.00.00        | Variable        | Pain – use FEC rank for involved body part.                |

**FUTURE EARNING CAPACITY (FEC) ADJUSTMENT TABLE**

Directions: To adjust for earning capacity, look up the impairment standard in the top row (bolded numbers), and read down to the entry corresponding to the applicable future earning capacity rank

| FEC Rank     | AMA Whole Person Impairment Standard |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |           |
|--------------|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              | <b>1</b>                             | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> |
| <b>One</b>   | 1                                    | 2        | 3        | 4        | 6        | 7        | 8        | 9        | 10       | 11        | 12        | 13        | 14        | 15        | 17        | 18        | 19        | 20        | 21        | 22        |
| <b>Two</b>   | 1                                    | 2        | 3        | 5        | 6        | 7        | 8        | 9        | 10       | 11        | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 21        | 22        | 23        |
| <b>Three</b> | 1                                    | 2        | 4        | 5        | 6        | 7        | 8        | 9        | 11       | 12        | 13        | 14        | 15        | 17        | 18        | 19        | 20        | 21        | 23        | 24        |
| <b>Four</b>  | 1                                    | 2        | 4        | 5        | 6        | 7        | 9        | 10       | 11       | 12        | 14        | 15        | 16        | 17        | 18        | 20        | 21        | 22        | 23        | 25        |
| <b>Five</b>  | 1                                    | 3        | 4        | 5        | 6        | 8        | 9        | 10       | 11       | 13        | 14        | 15        | 17        | 18        | 19        | 20        | 22        | 23        | 24        | 25        |
| <b>Six</b>   | 1                                    | 3        | 4        | 5        | 7        | 8        | 9        | 11       | 12       | 13        | 14        | 16        | 17        | 18        | 20        | 21        | 22        | 24        | 25        | 26        |
| <b>Seven</b> | 1                                    | 3        | 4        | 5        | 7        | 8        | 10       | 11       | 12       | 14        | 15        | 16        | 18        | 19        | 20        | 22        | 23        | 24        | 26        | 27        |
| <b>Eight</b> | 1                                    | 3        | 4        | 6        | 7        | 8        | 10       | 11       | 13       | 14        | 15        | 17        | 18        | 20        | 21        | 22        | 24        | 25        | 27        | 28        |

| FEC Rank     | AMA Whole Person Impairment Standard |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              | <b>21</b>                            | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> | <b>31</b> | <b>32</b> | <b>33</b> | <b>34</b> | <b>35</b> | <b>36</b> | <b>37</b> | <b>38</b> | <b>39</b> | <b>40</b> |
| <b>One</b>   | 23                                   | 24        | 25        | 26        | 28        | 29        | 30        | 31        | 32        | 33        | 34        | 35        | 36        | 37        | 39        | 40        | 41        | 42        | 43        | 44        |
| <b>Two</b>   | 24                                   | 25        | 26        | 27        | 29        | 30        | 31        | 32        | 33        | 34        | 35        | 37        | 38        | 39        | 40        | 41        | 42        | 43        | 45        | 46        |
| <b>Three</b> | 25                                   | 26        | 27        | 28        | 30        | 31        | 32        | 33        | 34        | 36        | 37        | 38        | 39        | 40        | 42        | 43        | 44        | 45        | 46        | 47        |
| <b>Four</b>  | 26                                   | 27        | 28        | 29        | 31        | 32        | 33        | 34        | 36        | 37        | 38        | 39        | 41        | 42        | 43        | 44        | 45        | 47        | 48        | 49        |
| <b>Five</b>  | 27                                   | 28        | 29        | 31        | 32        | 33        | 34        | 36        | 37        | 38        | 39        | 41        | 42        | 43        | 45        | 46        | 47        | 48        | 50        | 51        |
| <b>Six</b>   | 28                                   | 29        | 30        | 32        | 33        | 34        | 35        | 37        | 38        | 39        | 41        | 42        | 43        | 45        | 46        | 47        | 49        | 50        | 51        | 53        |
| <b>Seven</b> | 29                                   | 30        | 31        | 33        | 34        | 35        | 37        | 38        | 39        | 41        | 42        | 43        | 45        | 46        | 48        | 49        | 50        | 52        | 53        | 54        |
| <b>Eight</b> | 29                                   | 31        | 32        | 34        | 35        | 36        | 38        | 39        | 41        | 42        | 43        | 45        | 46        | 48        | 49        | 50        | 52        | 53        | 55        | 56        |

| FEC Rank     | AMA Whole Person Impairment Standard |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------|--------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|              | 41                                   | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| <b>One</b>   | 45                                   | 46 | 47 | 48 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 61 | 62 | 63 | 64 | 65 | 66 |
| <b>Two</b>   | 47                                   | 48 | 49 | 50 | 51 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 69 |
| <b>Three</b> | 49                                   | 50 | 51 | 52 | 53 | 55 | 56 | 57 | 58 | 59 | 60 | 62 | 63 | 64 | 65 | 66 | 68 | 69 | 70 | 71 |
| <b>Four</b>  | 50                                   | 52 | 53 | 54 | 55 | 57 | 58 | 59 | 60 | 61 | 63 | 64 | 65 | 66 | 68 | 69 | 70 | 71 | 72 | 74 |
| <b>Five</b>  | 52                                   | 53 | 55 | 56 | 57 | 58 | 60 | 61 | 62 | 64 | 65 | 66 | 67 | 69 | 70 | 71 | 72 | 74 | 75 | 76 |
| <b>Six</b>   | 54                                   | 55 | 57 | 58 | 59 | 60 | 62 | 63 | 64 | 66 | 67 | 68 | 70 | 71 | 72 | 74 | 75 | 76 | 78 | 79 |
| <b>Seven</b> | 56                                   | 57 | 58 | 60 | 61 | 62 | 64 | 65 | 67 | 68 | 69 | 71 | 72 | 73 | 75 | 76 | 77 | 79 | 80 | 81 |
| <b>Eight</b> | 57                                   | 59 | 60 | 62 | 63 | 64 | 66 | 67 | 69 | 70 | 71 | 73 | 74 | 76 | 77 | 78 | 80 | 81 | 83 | 84 |

| FEC Rank     | AMA Whole Person Impairment Standard |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |
|--------------|--------------------------------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 61                                   | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| <b>One</b>   | 67                                   | 68 | 69 | 70 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79  | 80  | 81  | 83  | 84  | 85  | 86  | 87  | 88  |
| <b>Two</b>   | 70                                   | 71 | 72 | 73 | 74 | 75 | 77 | 78 | 79 | 80 | 81 | 82  | 83  | 85  | 86  | 87  | 88  | 89  | 90  | 91  |
| <b>Three</b> | 72                                   | 74 | 75 | 76 | 77 | 78 | 79 | 81 | 82 | 83 | 84 | 85  | 87  | 88  | 89  | 90  | 91  | 92  | 94  | 95  |
| <b>Four</b>  | 75                                   | 76 | 77 | 79 | 80 | 81 | 82 | 84 | 85 | 86 | 87 | 88  | 90  | 91  | 92  | 93  | 95  | 96  | 97  | 98  |
| <b>Five</b>  | 78                                   | 79 | 80 | 81 | 83 | 84 | 85 | 86 | 88 | 89 | 90 | 92  | 93  | 94  | 95  | 97  | 98  | 99  | 100 | 100 |
| <b>Six</b>   | 80                                   | 81 | 83 | 84 | 85 | 87 | 88 | 89 | 91 | 92 | 93 | 95  | 96  | 97  | 99  | 100 | 100 | 100 | 100 | 100 |
| <b>Seven</b> | 83                                   | 84 | 86 | 87 | 88 | 90 | 91 | 92 | 94 | 95 | 96 | 98  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Eight</b> | 85                                   | 87 | 88 | 90 | 91 | 92 | 94 | 95 | 97 | 98 | 99 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

| FEC Rank     | AMA Whole Person Impairment Standard |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 81                                   | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| <b>One</b>   | 89                                   | 90  | 91  | 92  | 94  | 95  | 96  | 97  | 98  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Two</b>   | 93                                   | 94  | 95  | 96  | 97  | 98  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Three</b> | 96                                   | 97  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Four</b>  | 100                                  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Five</b>  | 100                                  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Six</b>   | 100                                  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Seven</b> | 100                                  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| <b>Eight</b> | 100                                  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

## **SECTION 3 - OCCUPATIONS AND GROUP NUMBERS**

Section 3 contains two parts. Part A contains an alphabetized list of occupations with their scheduled occupational group numbers. Find the occupation in the alphabetical list and record the associated group number. Note that some occupations may have more than one title and that all variations may not be listed. Also note that some titles may appear more than once, but pertain to different industries. Care should be taken to ensure that the industry designated also matches the occupation under consideration.

Part B contains an occupational group chart which illustrates the overall system for classifying occupations into groups. Part C contains a description and sample occupations of each group. This information may be useful if the occupation cannot be located in Part A. Simply determine the basic functions and activities of the occupation under consideration and relate it to a comparable scheduled occupation to determine the appropriate group number.

After establishing the occupation and group number, turn to Section 4 to determine the occupational variant.

| Group No. | Occupation | Industry | Group No. | Occupation | Industry |
|-----------|------------|----------|-----------|------------|----------|
|-----------|------------|----------|-----------|------------|----------|

PART A – LIST OF OCCUPATIONS AND GROUP NUMBERS

|     |   |                 |     |                                       |                 |
|-----|---|-----------------|-----|---------------------------------------|-----------------|
| 111 | ABTRACTOR                                     | profess. & kin. | 220 | ANESTHESIOLOGIST                      | medical ser.    |
| 110 | ACADEMIC DEAN                                 | education       | 310 | ANGIOGRAM TECHNOLOGIST                | medical ser.    |
| 110 | ACCOUNT EXECUTIVE                             | business ser.   | 491 | ANIMAL KEEPER                         | amuse. & rec.   |
| 111 | ACCOUNT INFORMATION CLERK                     | utilities       | 390 | ANIMAL TRAINER                        | amuse. & rec.   |
| 111 | ACCOUNTANT                                    | profess. & kin. | 491 | ANIMAL RIDE ATTENDANT                 | amuse. & rec.   |
| 111 | ACCOUNTANT, PROPERTY                          | profess. & kin. | 210 | ANNOUNCER                             | radio-tv broad. |
| 111 | ACCOUNTING CLERK                              | clerical        | 460 | ANODIZER                              | any industry    |
| 590 | ACROBAT                                       | amuse. & rec.   | 380 | ANTENNA INSTALLER                     | any industry    |
| 210 | ACTOR   | amuse. & rec.   | 380 | ANTENNA INSTALLER, SATELLITE          | any industry    |
| 310 | ACUPRESSURIST                                 | medical ser.    |     | COMMUNICATIONS                        |                 |
| 211 | ADDRESSING MACHINE OPERATOR                   | clerical        | 110 | APPEALS REFEREE                       | government ser. |
| 111 | ADMINISTRATIVE ANALYST                        | any industry    | 111 | APPOINTMENT CLERK                     | clerical        |
| 211 | ADMINISTRATIVE CLERK                          | clerical        | 212 | APPRAISER, ART                        | any industry    |
| 212 | ADMINISTRATOR, HEALTH CARE FACILITY           | medical ser.    | 212 | APPRAISER, BUSINESS EQPT.             | any industry    |
| 111 | ADMISSIONS EVALUATOR                          | education       | 213 | APPRAISER, REAL ESTATE                | real estate     |
| 212 | AIR ANALYST                                   | profess. & kin. | 330 | ARBOR PRESS OPERATOR                  | any industry    |
| 481 | AIR CONDITIONING INSTALLER SERV., WINDOW UNIT | construction    | 370 | ARC CUTTER                            | welding         |
| 480 | AIR HAMMER OPERATOR                           | construction    | 212 | ARCHITECT                             | profess. & kin. |
| 212 | AIR TRAFFIC CONTROL SPECIALIST, TOWER         | government ser. | 111 | ARCHIVIST                             | profess. & kin. |
| 380 | AIRCRAFT BODY REPAIRER                        | air trans.      | 320 | ARMATURE BANDER                       | any industry    |
| 380 | AIRCRAFT BONDED STRUCTURES REPAIRER           | aircraft mfg.   | 350 | ARMORED CAR DRIVER                    | business ser.   |
| 460 | AIRCRAFT SERVICE WORKER                       | air trans.      | 390 | ARMORED CAR GUARD                     | business ser.   |
| 341 | AIRCRAFT SERVICE ATTENDANT                    | air trans.      | 111 | ART DIRECTOR                          | motion picture  |
| 380 | AIRFRAME AND POWER PLANT MECHANIC             | aircraft mfg.   | 221 | ARTIFICIAL FLOWER MAKER               | button & notion |
| 213 | AIRLINE TRANSPORTATION AGENT                  | air trans.      | 220 | ARTIFICIAL PLASTIC EYE MAKER          | optical goods   |
| 213 | AIRPLANE INSPECTOR                            | air trans.      | 480 | ASPHALT RAKER                         | construction    |
| 250 | AIRPLANE PILOT, COMMERCIAL                    | air trans.      | 351 | ASPHALT SURFACE HEATER OPERATOR       | construction    |
| 322 | AIRPLANE FLIGHT ATTENDANT                     | air trans.      | 351 | ASPHALT DISTRIBUTOR TENDER            | construction    |
| 380 | ALARM SERVICE TECHNICIAN                      | business ser.   | 351 | ASPHALT PAVING MACHINE OPERATOR       | construction    |
| 111 | ALARM SIGNAL OPERATOR                         | any industry    | 120 | ASSEMBLER                             | jewelry-silver. |
| 560 | AMBULANCE ATTENDANT                           | medical ser.    | 221 | ASSEMBLER                             | house. appl.    |
| 560 | AMBULANCE DRIVER                              | medical ser.    | 221 | ASSEMBLER, ELECTRIC MOTOR             | elec. equip.    |
| 340 | AMUSEMENT PARK ATTENDANT                      | amuse. & rec.   | 370 | ASSEMBLER, INTERNAL COMBUSTION ENGINE | engine-turbine  |
| 210 | AMUSEMENT PARK ENTERTAINER                    | amuse. & rec.   | 370 | ASSEMBLER, MOTOR VEHICLE              | auto. mfg.      |
|     |   |                 | 221 | ASSEMBLER, MUSICAL INSTRUMENTS        | musical inst.   |

| Group No. | Occupation                          | Industry                   |
|-----------|-------------------------------------|----------------------------|
| 320       | ASSEMBLER, OFFICE MACHINES          | office machines            |
| 221       | ASSEMBLER, PRODUCTION               | any industry               |
| 120       | ASSEMBLER, SEMICONDUCTOR            | electron. comp.            |
| 221       | ASSEMBLER, SMALL PRODUCTS           | any industry               |
| 380       | ASSEMBLER, SUBASSEMBLY              | aircraft mfg.              |
| 380       | ASSEMBLER-INSTALLER, GENERAL        | aircraft mfg.              |
| 590       | ATHLETE, PROFESSIONAL               | amuse. & rec.              |
| 390       | ATHLETIC TRAINER                    | amuse. & rec.              |
| 111       | ATTENDANCE CLERK                    | education                  |
| 111       | AUCTION CLERK                       | retail trade               |
| 210       | AUCTIONEER                          | retail trade               |
| 212       | AUDIO OPERATOR                      | radio-tv broad.            |
| 221       | AUDIO VIDEO REPAIRER                | any industry               |
| 251       | AUDIOVISUAL PRODUCTION SPECIALIST   | profess. & kin.            |
| 111       | AUDIT CLERK                         | clerical                   |
| 111       | AUDITOR                             | profess. & kin.            |
| 251       | AUDITOR, FIELD                      | profess. & kin.            |
| 330       | AUTOCLAVE OPERATOR                  | aircraft mfg.              |
| 370       | AUTOMATED EQUIPMENT INSTALLER       | machinery mfg.             |
| 370       | AUTOMOBILE ASSEMBLER                | auto. mfg.                 |
| 340       | AUTOMOBILE DETAILER                 | automotive ser.            |
| 111       | AUTOMOBILE LOCATOR                  | retail trade               |
| 321       | AUTOMOBILE UPHOLSTERER              | automotive ser.            |
| 340       | AUTOMOBILE WASHER & POLISHER        | automotive ser.            |
| 460       | AUTOMOBILE WRECKER                  | wholesale tr.              |
| 370       | AUTOMOBILE ACCESSORIES INSTALLER    | automotive ser.            |
| 370       | AUTOMOBILE BODY REPAIRER            | automotive ser.            |
| 214       | AUTOMOBILE REPAIR SERVICE ESTIMATOR | automotive ser.            |
| 370       | AUTOMOBILE SERVICE STATION MECHANIC | automotive ser.            |
| 321       | AUTO PAINTER                        | any industry               |
| 380       | AWNING MAKER                        | tex. prod., nec.           |
| 240       | BABYSITTER                          | domestic ser.              |
| 460       | BAGGAGE HANDLER                     | r.r. trans.                |
| 212       | BAGGAGE SCREENER, AIRPO             | air transport.             |
| 214       | BAGGER                              | retail trade;<br>groceries |
| 490       | BAILIFF                             | government ser.            |

| Group No. | Occupation                       | Industry                      |
|-----------|----------------------------------|-------------------------------|
| 322       | BAKER                            | hotel & rest.                 |
| 460       | BAKER HELPER                     | bakery products               |
| 420       | BAKER                            | bakery products               |
| 322       | BAKERY SUPERVISOR                | bakery products               |
| 330       | BAND-SAWING MACHINE OPERATOR     | fabrication, nec              |
| 230       | BAND SAWMILL OPERATOR            | saw. & plan.                  |
| 211       | BANK CLERK                       | financial                     |
| 290       | BARBER                           | personal ser.                 |
| 330       | BARREL ASSEMBLER                 | wood. container               |
| 460       | BARREL FILLER                    | beverage                      |
| 322       | BARTENDER                        | hotel & rest.                 |
| 221       | BASKET MAKER                     | wood. container               |
| 230       | BATCH STILL OPERATOR             | chemical                      |
| 321       | BATTERY ASSEMBLER, DRY CELL      | elec. equip.                  |
| 321       | BATTERY REPAIRER                 | any industry                  |
| 290       | BEAUTICIAN                       | personal ser.                 |
| 230       | BED LASTER                       | boot & shoe                   |
| 491       | BEEKEEPER                        | agriculture                   |
| 360       | BELLHOP                          | hotel & rest.                 |
| 221       | BENCH WORKER                     | optical goods                 |
| 330       | BENDING MACHINE OPERATOR         | any industry                  |
| 493       | BICYCLE MESSENGER                | business ser.                 |
| 320       | BICYCLE REPAIRER                 | any industry                  |
| 480       | BILLBOARD & SIGN ERECTOR         | fabrication, nec              |
| 480       | BILLBOARD ERECTOR HELPER         | construction                  |
| 112       | BILLING CLERK                    | clerical                      |
| 213       | BILLPOSTER                       | business ser.                 |
| 230       | BINDERY WORKER                   | print. & pub.                 |
| 212       | BIOCHEMIST                       | profess. & kin.               |
| 110       | BIOLOGY SPECIMEN TECHNICIAN      | profess. & kin.               |
| 320       | BIOMEDICAL EQUIPMENT TECHNICIAN  | profess. & kin.               |
| 430       | BLACKSMITH                       | forging                       |
| 460       | BLACKSMITH HELPER                | forging                       |
| 480       | BLASTER                          | mining;                       |
| 332       | BLENDER                          | construction                  |
| 240       | BLIND AIDE                       | petrol. refin.                |
| 330       | BLISTER MACHINE OPERATOR         | personal ser.                 |
| 220       | BLOCKER AND CUTTER, CONTACT LENS | any industry<br>optical goods |

| Group No. | Occupation                             | Industry         | Group No. | Occupation                                    | Industry            |
|-----------|--|------------------|-----------|---|---------------------|
| 221       | BLOCKER, HAND                          | hat & cap        | 481       | BRICKLAYER APPRENTICE                         | construction        |
| 230       | BLUEPRINTING MACHINE OPERATOR          | any industry     | 480       | BRICKLAYER HELPER                             | construction        |
| 380       | BOAT REPAIRER                          | ship-boat mfg.   | 482       | BRIDGE MAINTENANCE WORKER                     | construction        |
| 380       | BOAT RIGGER                            | retail trade     | 482       | BRIDGE WORKER                                 | construction        |
| 380       | BOATBUILDER, WOOD                      | ship-boat mfg.   | 331       | BRIQUETTE MACHINE OPERATOR                    | fabrication, nec    |
| 390       | BODYGUARD                              | personal ser.    | 330       | BROACHING MACHINE OPERATOR, PRODUCTION        | machine shop        |
| 332       | BOILER OPERATOR                        | any industry     | 321       | BROOM STITCHER                                | fabrication, nec    |
| 332       | BOILER TENDER                          | any industry     | 492       | BUCKER  | logging             |
| 430       | BOILERMAKER                            | struct. metal    | 111       | BUDGET ANALYST                                | government ser.     |
| 460       | BOILERMAKER HELPER                     | struct. metal    | 321       | BUFFER  | any industry        |
| 111       | BONDING AGENT                          | business ser.    | 230       | BUFFING MACHINE TENDER, AUTOMATIC             | any industry        |
| 322       | BONER, MEAT                            | meat products    | 480       | BUILDING CLEANER, OUTSIDE                     | any industry        |
| 221       | BOOK REPAIRER                          | any industry     | 213       | BUILDING INSPECTOR                            | government ser.     |
| 320       | BOOKBINDER                             | print. & pub.    | 213       | BUILDING INSPECTOR                            | insurance           |
| 112       | BOOKKEEPER                             | clerical         | 380       | BUILDING MAINTENANCE REPAIRER                 | any industry        |
| 112       | BOOKKEEPER, GENERAL LEDGER             | clerical         | 351       | BULLDOZER OPERATOR                            | any industry        |
| 351       | BOOM CONVEYOR OPERATOR                 | any industry     | 380       | BURGLAR ALARM INSTALLER/REPAIRER              | business ser.       |
| 330       | BORING MACHINE OPERATOR                | woodworking      | 330       | BURNING MACHINE OPERATOR                      | welding             |
| 230       | BOTTLE PACKER                          | beverage         | 250       | BUS DRIVER                                    | motor trans.        |
| 390       | BOUNCER                                | amuse. & rec.    | 322       | BUS PERSON                                    | hotel & rest.       |
| 390       | BOUNTY HUNTER                          | business ser.    | 110       | BUSINESS MANAGER                              | amuse. & rec.       |
| 221       | BOW MAKER                              | any industry     | 111       | BUSINESS REPRESENTATIVE, LABOR UNION          | profess. & kin.     |
| 493       | BOWLER, PROFESSIONAL                   | amuse. and rec.  | 420       | BUTCHER, ALL-ROUND                            | meat products       |
| 331       | BOWLING BALL MOLDER                    | toy-sport equip. | 322       | BUTCHER, MEAT                                 | hotel & rest.       |
| 321       | BOX MAKER, PAPERBOARD                  | any industry     | 240       | BUTLER  | domestic ser.       |
| 321       | BOX MAKER, WOOD                        | wood. container  | 460       | BUTTERMAKER                                   | dairy products      |
| 230       | BOX PRINTING MACHINE OPERATOR          | any industry     | 230       | BUTTONHOLE AND BUTTON SEWING MACHINE OPERATOR | garment             |
| 230       | BOX BLANK MACHINE OPERATOR             | wood. container  | 320       | CABINETMAKER                                  | woodworking         |
| 460       | BOX FOLDING MACHINE OPERATOR           | paper goods      | 320       | CABLE ASSEMBLER AND SWAGER                    | aircraft mfg.       |
| 321       | BOX SPRING MAKER                       | furniture        | 350       | CABLE CAR OPERATOR                            | r.r. transportation |
| 211       | BRAILLE OPERATOR                       | print. & pub.    | 380       | CABLE INSTALLER-REPAIRER                      | utilities           |
| 111       | BRAILLE PROOFREADER                    | nonprofit org.   | 380       | CABLE MAINTAINER                              | utilities           |
| 370       | BRAKE REPAIRER                         | automotive ser.  | 480       | CABLE PULLER                                  | construction        |
| 330       | BRAKE PRESS OPERATOR                   | any industry     | 380       | CABLE SPLICER                                 | construction        |
| 330       | BRAZING MACHINE OPERATOR               | welding          | 481       | CABLE TELEVISION INSTALLER                    | radio-tv broad.     |
| 330       | BREAD WRAPPING MACHINE OPERATOR        | any industry     | 380       | CABLE TESTER                                  | tel. & tel.         |
| 332       | BREWERY CELLAR WORKER                  | beverage         | 120       | CAD DESIGNER                                  | profess. & kindred  |
| 331       | BRICK AND TILE MAKING MACHINE OPERATOR | brick & tile     |           |   |                     |
| 481       | BRICKLAYER                             | construction     |           |   |                     |

| Group No. | Occupation                             | Industry           |
|-----------|--|--------------------|
| 360       | CADDIE                                 | amuse. & rec.      |
| 322       | CAFETERIA ATTENDANT                    | hotel & rest.      |
| 480       | CAGER                                  | mine & quarry      |
| 221       | CAKE DECORATOR                         | bakery products    |
| 120       | CALLIGRAPHER                           | profess. & kin.    |
| 360       | CAMERA OPERATOR                        | motion picture     |
| 220       | CAMERA REPAIRER                        | photo. appar.      |
| 390       | CAMP COUNSELOR                         | amuse. & rec.      |
| 340       | CAMPGROUND ATTENDANT                   | amuse. & rec.      |
| 230       | CAN-FILLING AND CLOSING MACHINE TENDER | can. & preserv.    |
| 221       | CANDLEMAKER                            | fabrication, nec   |
| 331       | CANDY MAKER                            | sugar & conf.      |
| 221       | CANER                                  | furniture          |
| 230       | CANNERY WORKER, HAND OR MACHINE        | can. & preserv.    |
| 420       | CANVAS REPAIRER                        | any industry       |
| 230       | CAP-LINING MACHINE OPERATOR            | any industry       |
| 320       | CAPACITOR ASSEMBLER                    | elec. equip.       |
| 211       | CARD DEALER                            | amusement and rec. |
| 322       | CAR HOP                                | hotel & rest.      |
| 460       | CARBIDE POWDER PROCESSOR               | machine shop       |
| 110       | CARDIAC MONITOR TECHNICIAN             | medical ser.       |
| 212       | CARDIOPULMONARY TECHNOLOGIST           | medical ser.       |
| 240       | CARDROOM ATTENDANT                     | amuse. & rec.      |
| 360       | CARGO AGENT                            | air trans.         |
| 380       | CARPENTER                              | construction       |
| 380       | CARPENTER APPRENTICE                   | construction       |
| 480       | CARPENTER HELPER                       | construction       |
| 380       | CARPENTER, ACOUSTICAL                  | construction       |
| 380       | CARPENTER, MAINTENANCE                 | any industry       |
| 380       | CARPENTER, RAILCAR                     | railroad equip.    |
| 481       | CARPENTER, ROUGH                       | construction       |
| 380       | CARPENTER, SHIP                        | ship-boat mfg.     |
| 480       | CARPET CUTTER                          | retail trade       |
| 481       | CARPET LAYER                           | retail trade       |
| 321       | CARPET SEWER                           | carpet & rug       |
| 230       | CARPET WEAVER                          | carpet & rug       |
| 480       | CARPET LAYER HELPER                    | retail trade       |
| 120       | CARTOGRAPHER                           | prof. & kindred    |

| Group No. | Occupation                             | Industry        |
|-----------|--|-----------------|
| 330       | CARTON-FORMING MACHINE OPERATOR        | any industry    |
| 460       | CARTON-FORMING MACHINE TENDER          | paper goods     |
| 120       | CARTOONIST, MOTION PICTURES            | motion picture  |
| 111       | CASEWORKER                             | social ser.     |
| 320       | CASH REGISTER SERVICER                 | any industry    |
| 111       | CASHIER                                | clerical        |
| 214       | CASHIER-CHECKER                        | retail trade    |
| 230       | CASING MACHINE OPERATOR                | meat products   |
| 330       | CASTER                                 | smelt. & refin. |
| 331       | CASTER                                 | jewelry-silver. |
| 320       | CASTING REPAIRER                       | any industry    |
| 322       | CATERER                                | personal ser.   |
| 491       | CATTLE HERDER                          | agriculture     |
| 480       | CAULKER                                | construction    |
| 330       | CELLOPHANE BAG MACHINE OPERATOR        | paper goods     |
| 481       | CEMENT MASON                           | construction    |
| 480       | CEMENT SPRAYER, NOZZLE                 | construction    |
| 480       | CEMENT MASON HELPER                    | construction    |
| 480       | CEMENTER, OILWELL                      | petrol. & gas   |
| 331       | CENTER MACHINE OPERATOR                | sugar & conf.   |
| 380       | CENTRAL OFFICE REPAIRER                | tel. & tel.     |
| 331       | CENTRIFUGAL EXTRACTOR OPERATOR         | any industry    |
| 230       | CENTRIFUGE OPERATOR, PLASMA PROCESSING | medical ser.    |
| 230       | CENTRIFUGE SEPARATOR OPERATOR          | chemical        |
| 110       | CEPHALOMETRIC ANALYST                  | medical ser.    |
| 331       | CERAMIC COATER, MACHINE                | any industry    |
| 460       | CHAIN OFFBEARER                        | saw. & plan.    |
| 492       | CHAIN SAW OPERATOR                     | logging         |
| 331       | CHAR CONVEYOR TENDER                   | sugar & conf.   |
| 230       | CHARGE PREPARATION TECHNICIAN          | electron. comp. |
| 492       | CHASER                                 | logging         |
| 250       | CHAUFFEUR                              | any industry    |
| 111       | CHECK CASHIER                          | business ser.   |
| 360       | CHECKER                                | laundry & rel.  |
| 214       | CHECKER, GROCERY                       | retail trade    |



| Group No. | Occupation                               | Industry                    |
|-----------|--|-----------------------------|
| 360       | CHECKER, UNLOADER                        | clerical                    |
| 360       | CHECKER, WAREHOUSE                       | retail trade                |
| 240       | CHECKROOM ATTENDANT                      | any industry                |
| 322       | CHEESE CUTTER                            | dairy products              |
| 322       | CHEESEMAKER                              | dairy products              |
| 322       | CHEF DE FROID                            | hotel & rest.               |
| 212       | CHEMICAL ENGINEER                        | profess. & kin.             |
| 212       | CHEMICAL LABORATORY<br>TECHNICIAN        | profess. & kin.             |
| 230       | CHEMICAL PREPARER                        | chemical                    |
| 212       | CHEMIST                                  | profess. & kin.             |
| 240       | CHILD MONITOR                            | domestic ser.               |
| 111       | CHILD SUPPORT OFFICER                    | government ser.             |
| 340       | CHILD-CARE ATTENDANT,<br>HANDICAPPED     | education                   |
| 340       | CHILDREN'S INSTITUTION<br>ATTENDANT      | any industry                |
| 341       | CHIMNEY SWEEP                            | any industry                |
| 460       | CHIPPER, ROUGH                           | any industry                |
| 311       | CHIROPRACTOR                             | medical ser.                |
| 311       | CHIROPRACTOR ASSISTANT                   | medical ser.                |
| 460       | CHOCOLATE PRODUCTION<br>MACHINE OPERATOR | sugar & conf.               |
| 560       | CHOKER SETTER                            | logging                     |
| 492       | CHOPPER                                  | logging                     |
| 491       | CHRISTMAS TREE FARM WORKER               | forestry                    |
| 320       | CHUCKING LATHE OPERATOR                  | machine shop                |
| 330       | CIRCULAR SAWYER, STONE                   | stonework                   |
| 212       | CIVIL ENGINEER                           | profess. & kin.             |
| 251       | CLAIM ADJUSTER, FIELD                    | insurance; business<br>ser. |
| 111       | CLAIM ADJUSTER, INSIDE                   | insurance                   |
| 111       | CLAIMS CLERK                             | insurance                   |
| 221       | CLAY MODELER                             | any industry                |
| 340       | CLEANER, COMMERCIAL OR<br>INSTITUTIONAL  | any industry                |
| 340       | CLEANER, EQUIPMENT                       | any industry                |
| 340       | CLEANER, HOSPITAL                        | medical ser.                |
| 340       | CLEANER, LABORATORY<br>EQUIPMENT         | any industry                |
| 341       | CLEANER, WINDOW                          | any industry                |
| 210       | CLERGY MEMBER                            | profess. & kin.             |

| Group No. | Occupation                           | Industry        |
|-----------|--------------------------------------|-----------------|
| 111       | CLERK, ADVERTISING SPACE             | print. & pub.   |
| 111       | CLERK, ANIMAL HOSPITAL               | medical ser.    |
| 112       | CLERK, BILLING                       | clerical        |
| 111       | CLERK, COLLECTION                    | clerical        |
| 111       | CLERK, CONTRACT, AUTOMOBILE          | retail trade    |
| 111       | CLERK, COURT                         | government ser. |
| 111       | CLERK, CREDIT                        | clerical        |
| 111       | CLERK, ELECTION                      | government ser. |
| 214       | CLERK, FILE                          | clerical        |
| 211       | CLERK, GENERAL                       | clerical        |
| 211       | CLERK, INVENTORY CONTROL             | clerical        |
| 214       | CLERK, SALES                         | retail trade    |
| 360       | CLERK, SHIPPING                      | clerical        |
| 112       | CLERK, STATISTICAL                   | clerical        |
| 111       | CLERK, WIRE TRANSFER                 | financial       |
| 112       | CLERK-TYPIST                         | clerical        |
| 110       | CLINICAL PSYCHOLOGIST                | profess. & kin. |
| 330       | CLOTH PRINTER                        | any industry    |
| 221       | CLOTH TESTER, QUALITY                | textile         |
| 390       | COACH, PROFESSIONAL ATHLETES         | amuse. & rec.   |
| 331       | COATER OPERATOR                      | any industry    |
| 331       | COATING MACHINE OPERATOR             | paper & pulp    |
| 320       | COBBLER                              | boot & shoe     |
| 322       | COFFEEMAKER                          | hotel & rest.   |
| 230       | COFFEE ROASTER                       | food prep., nec |
| 230       | COIL WINDER                          | elec. equip.    |
| 221       | COIL WINDER, REPAIR                  | any industry    |
| 214       | COIN COUNTER AND WRAPPER             | clerical        |
| 251       | COIN MACHINE COLLECTOR               | business ser.   |
| 370       | COIN MACHINE SERVICE REPAIRER        | svc. ind. mach. |
| 111       | COLLECTION CLERK                     | clerical        |
| 251       | COLLECTOR, OUTSIDE                   | clerical        |
| 230       | COLOR PRINTER OPERATOR               | photofinishing  |
| 111       | COLUMNIST/COMMENTATOR                | print. & pub.   |
| 111       | COMMUNITY ORGANIZATION<br>WORKER     | social serv.    |
| 250       | COMMUNITY SERVICE OFFICER,<br>PATROL | social serv.    |
| 240       | COMPANION                            | domestic ser.   |
| 221       | COMPOSITOR, TYPESETTER               | print. & pub.   |
| 230       | COMPOUNDER                           | petrol. refin.  |
| 360       | COMPRESSED GAS PLANT WORKER          | chemical        |

| Group No. | Occupation                          | Industry        |
|-----------|-------------------------------------|-----------------|
| 332       | COMPRESSOR OPERATOR                 | any industry    |
| 112       | COMPUTER KEYBOARD OPERATOR          | clerical        |
| 230       | COMPUTER OPERATOR, MAINFRAME        | clerical        |
| 111       | COMPUTER PROCESSING SCHEDULER       | clerical        |
| 112       | COMPUTER PROGRAMMER                 | profess. & kin. |
| 320       | COMPUTER REPAIRER                   | office machines |
| 111       | COMPUTER SECURITY SPECIALIST        | profess. & kin. |
| 320       | COMPUTER SET-UP PERSON              | business serv.  |
| 111       | COMPUTER SUPPORT ANALYST            | profess. & kin. |
| 351       | CONCRETE PAVING MACHINE OPERATOR    | construction    |
| 480       | CONCRETE STONE FINISHER             | concrete prod.  |
| 480       | CONCRETE VIBRATOR OPERATOR          | construction    |
| 340       | CONDUCTOR, ALL RAILS                | r.r. trans.     |
| 213       | CONDUCTOR, PASSENGER CAR            | r.r. trans.     |
| 370       | CONSTRUCTION EQUIPMENT MECHANIC     | construction    |
| 110       | CONSULTANT, EDUCATION               | education       |
| 230       | CONTACT LENS MOLDER                 | optical goods   |
| 330       | CONTOUR BAND SAW OPERATOR, VERTICAL | machine shop    |
| 213       | CONTRACTOR                          | construction    |
| 120       | CONTROLS DESIGNER                   | profess. & kin. |
| 360       | CONVEYOR FEEDER-OFFBEARER           | any industry    |
| 360       | CONVEYOR TENDER                     | any industry    |
| 370       | CONVEYOR MAINTENANCE MECHANIC       | any industry    |
| 360       | CONVEYOR SYSTEM OPERATOR            | any industry    |
| 322       | COOK                                | domestic ser.   |
| 322       | COOK                                | any industry    |
| 322       | COOK ASSISTANT                      | hotel & rest.   |
| 322       | COOK, CHIEF                         | hotel & rest.   |
| 322       | COOK, FAST FOOD                     | hotel & rest.   |
| 322       | COOK, PASTRY                        | hotel & rest.   |
| 322       | COOK, SPECIALTY                     | hotel & rest.   |
| 110       | COORDINATOR, SKILL-TRAINING PROGRAM | government ser. |
| 111       | COPY READER                         | print. & pub.   |
| 111       | COPY WRITER                         | profess. & kin. |
| 112       | COPYIST                             | any industry    |
| 480       | CORE DRILL OPERATOR                 | any industry    |

| Group No. | Occupation                               | Industry         |
|-----------|--|------------------|
| 330       | COREMAKER                                | paper goods      |
| 331       | COREMAKER, FLOOR                         | foundry          |
| 490       | CORRECTION OFFICER                       | government ser.  |
| 290       | COSMETOLOGIST                            | personal ser.    |
| 110       | COUNSELOR                                | profess. & kin.  |
| 390       | COUNSELOR, CAMP                          | amuse. & rec.    |
| 322       | COUNTER ATTENDANT, CAFETERIA             | hotel & rest.    |
| 250       | COURIER                                  | any industry     |
| 111       | COURT CLERK                              | government ser.  |
| 112       | COURT REPORTER                           | clerical         |
| 491       | COWPUNCHER                               | agriculture      |
| 360       | CRANE FOLLOWER                           | any industry     |
| 360       | CRANE HOOKER                             | any industry     |
| 351       | CRANE OPERATOR                           | any industry     |
| 360       | CRATE MAKER                              | any industry     |
| 111       | CREDIT AUTHORIZER                        | clerical         |
| 111       | CREDIT CLERK                             | clerical         |
| 111       | CREDIT COUNSELOR                         | profess. & kin.  |
| 460       | CREMATOR                                 | personal ser.    |
| 111       | CREW SCHEDULER                           | air trans.       |
| 230       | CRIMPING MACHINE OPERATOR                | any industry     |
| 330       | CROSSBAND LAYER                          | millwork-plywood |
| 460       | CRUSHER OPERATOR                         | concrete prod.   |
| 112       | CRYPTOGRAPHIC MACHINE OPERATOR           | clerical         |
| 330       | CRYSTAL GROWER                           | comm. equip.     |
| 330       | CRYSTAL SLICER                           | electron. comp.  |
| 212       | CURATOR                                  | museums          |
| 211       | CURRENCY COUNTER                         | financial        |
| 340       | CUSTODIAN                                | any industry     |
| 360       | CUSTODIAN, ATHLETIC EQUIPMENT            | amuse. & rec.    |
| 211       | CUSTODIAN, PROPERTY                      | government ser.  |
| 211       | CUSTOMER SERVICE CLERK                   | retail trade     |
| 213       | CUSTOMER SERVICE REPRESENTATIVE          | utilities        |
| 112       | CUSTOMER SERVICE REPRESENTATIVE – INSIDE | utilities        |
| 212       | CUSTOMS BROKER                           | financial        |
| 330       | CUT-OFF SAW OPERATOR                     | woodworking      |
| 330       | CUT-OFF SAW OPERATOR, METAL              | machine shop     |
| 230       | CUTTER                                   | photofinishing   |
| 330       | CUTTER OPERATOR                          | any industry     |

| Group No. | Occupation                           | Industry                      |
|-----------|--------------------------------------|-------------------------------|
| 230       | CUTTER, MACHINE                      | any industry                  |
| 230       | CUTTING MACHINE OPERATOR, AUTOMATED  | aircraft mfg.                 |
| 460       | CUTTING MACHINE OPERATOR             | textile                       |
| 330       | CUTTING MACHINE TENDER               | any industry                  |
| 460       | CYLINDER FILLER                      | chemical                      |
| 460       | CYLINDER PRESS FEEDER                | print. & pub.                 |
| 120       | CYTOTECNOLOGIST                      | medical ser.                  |
| 460       | DAIRY PROCESSING EQUIPMENT OPERATOR  | dairy products                |
| 590       | DANCER                               | amuse. & rec.                 |
| 111       | DATA BASE ADMINISTRATOR              | profess. & kin.               |
| 380       | DATA COMMUNICATIONS INSTALLER        | any industry                  |
| 112       | DATA ENTRY CLERK                     | clerical                      |
| 221       | DECAL APPLIER                        | any industry                  |
| 491       | DECKHAND                             | water trans., fishing & hunt. |
| 331       | DECONTAMINATOR, RADIOACTIVE MATERIAL | any industry                  |
| 221       | DECORATOR                            | bakery products               |
| 380       | DECORATOR, SPECIAL EVENT             | any industry                  |
| 480       | DECORATOR, STREET AND BUILDING       | any industry                  |
| 322       | DELI CUTTER-SLICER                   | retail trade                  |
| 250       | DELIVERER, CAR RENTAL                | automotive ser.               |
| 250       | DELIVERER, FLORAL ARRANGEMENTS       | retail trade                  |
| 213       | DELIVERER, NON-DRIVING               | clerical                      |
| 250       | DELIVERER, PIZZA                     | retail trade                  |
| 212       | DEMONSTRATOR                         | retail trade                  |
| 212       | DENTAL ASSISTANT                     | medical ser.                  |
| 220       | DENTAL HYGIENIST                     | medical ser.                  |
| 220       | DENTAL LABORATORY TECHNICIAN         | protective dev.               |
| 220       | DENTIST                              | medical ser.                  |
| 490       | DEPUTY, COURT                        | government ser.               |
| 480       | DERRICK WORKER, WELL SERVICE         | petrol. & gas                 |
| 230       | DESIGN PRINTER, BALLOON              | rubber goods                  |
| 490       | DETECTIVE                            | government ser.               |
| 390       | DETECTIVE, STORE                     | retail trade                  |
| 212       | DIALYSIS TECHNICIAN                  | medical ser.                  |
| 330       | DIE CASTING MACHINE OPERATOR         | foundry                       |

| Group No. | Occupation                         | Industry         |
|-----------|------------------------------------|------------------|
| 330       | DIE CUTTER                         | any industry     |
| 120       | DIE DESIGNER                       | machine shop     |
| 320       | DIE MAKER                          | machine shop     |
| 320       | DIE SINKER                         | machine shop     |
| 322       | DIETARY AIDE, HOSPITAL SERVICES    | medical ser.     |
| 212       | DIETITIAN, CLINICAL                | profess. & kin.  |
| 322       | DINING ROOM ATTENDANT              | hotel & rest.    |
| 351       | DINKEY OPERATOR                    | any industry     |
| 221       | DIPPER                             | jewelry-silver.  |
| 331       | DIPPER                             | any industry     |
| 110       | DIRECTOR, FUNDRAISING              | nonprofit org.   |
| 110       | DIRECTOR, MOTION PICTURE           | motion picture   |
| 212       | DIRECTOR, RECREATION CENTER        | social ser.      |
| 110       | DIRECTOR, REGULATORY AGENCY        | government ser.  |
| 110       | DIRECTOR, RESEARCH AND DEVELOPMENT | any industry     |
| 110       | DIRECTOR, SERVICE                  | retail trade     |
| 210       | DIRECTOR, SOCIAL                   | hotel & rest.    |
| 112       | DIRECTORY ASSISTANCE OPERATOR      | tel. & tel.      |
| 322       | DISHWASHER, HAND OR MACHINE        | hotel & rest.    |
| 111       | DISPATCHER, MOTOR VEHICLE          | clerical         |
| 380       | DISPLAY MAKER                      | fabrication, nec |
| 330       | DISPLAY SCREEN FABRICATOR          | electron. comp.  |
| 360       | DISPLAYER, MERCHANDISE             | retail trade     |
| 460       | DISTILLERY WORKER, GENERAL         | beverage         |
| 221       | DISTRESSER                         | furniture        |
| 480       | DITCH DIGGER                       | construction     |
| 492       | DIVER                              | any industry     |
| 230       | DIVIDING MACHINE OPERATOR          | bakery products  |
| 111       | DOCUMENT PREPARER, MICROFILMING    | business ser.    |
| 491       | DOG CATCHER                        | government ser.  |
| 491       | DOG GROOMER                        | personal ser.    |
| 251       | DOG LICENSER                       | nonprofit org.   |
| 560       | DOLLY PUSHER                       | radio-tv broad.  |
| 390       | DOUBLE                             | motion picture   |
| 460       | DOUGH BRAKE MACHINE OPERATOR       | bakery products  |
| 322       | DOUGH MOLDER, HAND                 | bakery products  |
| 322       | DOUGHNUT MAKER                     | bakery products  |
| 330       | DOWEL MACHINE OPERATOR             | woodworking      |
| 120       | DRAFTER, ARCHITECTURAL             | profess. & kin.  |

| Group No. | Occupation                              | Industry         |
|-----------|---|------------------|
| 120       | DRAFTER, ASSISTANT                      | profess. & kin.  |
| 120       | DRAFTER, CIVIL                          | profess. & kin.  |
| 120       | DRAFTER, ELECTRICAL                     | profess. & kin.  |
| 120       | DRAFTER, ELECTROMECHANISMS DESIGN       | profess. & kin.  |
| 120       | DRAFTER, LANDSCAPE                      | profess. & kin.  |
| 120       | DRAFTER, MECHANICAL                     | profess. & kin.  |
| 351       | DRAGLINE OPERATOR                       | any industry     |
| 380       | DRAPERY HANGER                          | retail trade     |
| 110       | DRAWINGS CHECKER, ENGINEERING           | profess. & kin.  |
| 221       | DRESSMAKER                              | any industry     |
| 230       | DRIER OPERATOR                          | food prep., nec  |
| 331       | DRIER OPERATOR                          | chemical         |
| 330       | DRILL PRESS OPERATOR                    | machine shop     |
| 330       | DRILL PRESS OPERATOR, NUMERICAL CONTROL | machine shop     |
| 321       | DRILLER, HAND                           | any industry     |
| 240       | DRIVE-IN THEATER ATTENDANT              | amuse. & rec.    |
| 251       | DRIVER'S LICENSE EXAMINER               | government ser.  |
| 350       | DRIVER, NEWSPAPER DELIVERY              | wholesale tr.    |
| 430       | DROPHAMMER OPERATOR                     | aircraft mfg.    |
| 430       | DRUM STRAIGHTENER                       | any industry     |
| 340       | DRY CLEANER                             | laundry & rel.   |
| 331       | DRY-PRESS OPERATOR                      | brick & tile     |
| 380       | DRY WALL APPLICATOR                     | construction     |
| 481       | DUCT INSTALLER                          | construction     |
| 330       | DYNAMITE PACKING MACHINE OPERATOR       | chemical         |
| 212       | ECHOCARDIOGRAPH TECHNICIAN              | medical ser.     |
| 110       | EDITOR, MANAGING, NEWSPAPER             | print. & pub.    |
| 111       | EDITOR, NEWSPAPER                       | print. & pub.    |
| 111       | EDITOR, PUBLICATIONS                    | print. & pub.    |
| 112       | EDITORIAL WRITER                        | print. & pub.    |
| 221       | EGG CANDLER                             | any industry     |
| 380       | ELECTRIC METER INSTALLER                | utilities        |
| 221       | ELECTRIC MOTOR ASSEMBLER                | elec. equip.     |
| 320       | ELECTRIC MOTOR CONTROL UNIT ASSEMBLER   | elec. equip.     |
| 320       | ELECTRIC SIGN ASSEMBLER                 | fabrication, nec |
| 212       | ELECTRICAL ENGINEER                     | profess. & kin.  |
| 212       | ELECTRICAL TECHNICIAN                   | profess. & kin.  |

| Group No. | Occupation                                       | Industry        |
|-----------|--|-----------------|
| 221       | ELECTRICAL APPLIANCE REPAIRER, SMALL             | any industry    |
| 370       | ELECTRICAL APPLIANCE SERVICER                    | any industry    |
| 460       | ELECTRICAL APPLIANCE UNCRATER                    | any industry    |
| 221       | ELECTRICAL INSTRUMENT REPAIRER                   | any industry    |
| 380       | ELECTRICIAN                                      | construction    |
| 380       | ELECTRICIAN                                      | ship-boat mfg.  |
| 380       | ELECTRICIAN APPRENTICE                           | construction    |
| 380       | ELECTRICIAN HELPER                               | any industry    |
| 370       | ELECTRICIAN, AUTOMOTIVE                          | automotive ser. |
| 380       | ELECTRICIAN, MAINTENANCE                         | any industry    |
| 380       | ELECTRICIAN, POWERHOUSE                          | utilities       |
| 460       | ELECTROLESS PLATER, PRINTED CIRCUIT BOARD PANELS | electron. comp. |
| 290       | ELECTROLOGIST                                    | personal ser.   |
| 220       | ELECTROMECHANICAL TECHNICIAN                     | inst. & app.    |
| 320       | ELECTROMEDICAL EQUIPMENT REPAIRER                | any industry    |
| 212       | ELECTROMYOGRAPHIC TECHNICIAN                     | medical ser.    |
| 221       | ELECTRONIC COMPONENT PROCESSOR                   | electron. comp. |
| 221       | ELECTRONICS ASSEMBLER                            | comm. equip.    |
| 212       | ELECTRONICS TECHNICIAN                           | profess. & kin. |
| 221       | ELECTRONICS TESTER                               | comm. equip.    |
| 212       | ELECTRONICS DESIGN ENGINEER                      | profess. & kin. |
| 351       | ELEVATING GRADER OPERATOR                        | construction    |
| 482       | ELEVATOR CONSTRUCTOR                             | construction    |
| 380       | ELEVATOR EXAMINER AND ADJUSTER                   | any industry    |
| 460       | ELEVATOR OPERATOR, FREIGHT                       | any industry    |
| 380       | ELEVATOR REPAIRER                                | any industry    |
| 111       | ELIGIBILITY WORKER                               | government ser. |
| 420       | EMBALMER   | personal ser.   |
| 331       | EMBOSSER   | any industry    |
| 230       | EMBOSSING PRESS OPERATOR                         | print. & pub.   |
| 460       | EMERGENCY MEDICAL TECHNICIAN                     | medical ser.    |
| 111       | EMPLOYEE RELATIONS SPECIALIST                    | profess. & kin. |
| 111       | EMPLOYMENT INTERVIEWER                           | profess. & kin. |
| 320       | ENGINE LATHE OPERATOR                            | machine shop    |
| 213       | ENGINEER, AERONAUTICAL TEST                      | aircraft mfg.   |
| 111       | ENGINEER, AERONAUTICAL DESIGN                    | aircraft mfg.   |

| Group No. | Occupation                          | Industry           | Group No. | Occupation                               | Industry            |
|-----------|-------------------------------------|--------------------|-----------|--|---------------------|
| 212       | ENGINEER, AGRICULTURAL              | profess. & kin.    | 213       | EXTRA, ACTOR                             | amuse. & rec.;      |
| 212       | ENGINEER, AUTOMOTIVE                | auto. mfg.         |           |  | motion picture      |
| 111       | ENGINEER, BIOMEDICAL                | profess. & kin.    | 330       | EXTRUDER OPERATOR                        | rubber goods        |
| 212       | ENGINEER, CHEMICAL                  | profess. & kin.    | 220       | EYEGLASS LENS CUTTER                     | optical goods       |
| 212       | ENGINEER, CIVIL                     | profess. & kin.    | 230       | FABRIC STRETCHER                         | furniture           |
| 111       | ENGINEER, ELECTRO-OPTICAL           | profess. & kin.    | 320       | FABRICATING MACHINE OPERATOR,<br>METAL   | any industry        |
| 212       | ENGINEER, ELECTRONICS DESIGN        | profess. & kin.    | 221       | FABRICATOR, FOAM RUBBER                  | any industry        |
| 212       | ENGINEER, FACTORY LAY-OUT           | profess. & kin.    | 330       | FABRICATOR/ASSEMBLER, METAL<br>PRODUCTS  | any industry        |
| 213       | ENGINEER, FIELD SERVICE             | profess. & kin.    | 210       | FACULTY MEMBER, COLLEGE OR<br>UNIVERSITY | education           |
| 212       | ENGINEER, MECHANICAL                | profess. & kin.    | 492       | FALLER                                   | logging             |
| 111       | ENGINEER, NUCLEAR                   | profess. & kin.    | 492       | FALLER, TIMBER                           | logging             |
| 111       | ENGINEER, PACKAGING                 | profess. & kin.    | 491       | FARM LABORER, GENERAL                    | agriculture         |
| 111       | ENGINEER, POWER DISTRIBUTION        | utilities          | 351       | FARM MACHINE OPERATOR                    | agriculture         |
| 111       | ENGINEER, PRODUCT SAFETY            | profess. & kin.    | 491       | FARMER, GENERAL                          | agriculture         |
| 212       | ENGINEER, RAILROAD                  | profess. & kin.    | 491       | FARMWORKER, FRUIT                        | agriculture         |
| 213       | ENGINEER, SOILS                     | profess. & kin.    | 491       | FARMWORKER, VEGETABLE                    | agriculture         |
| 320       | ENGRAVER, HAND, HARD METALS         | engraving          | 120       | FASHION ARTIST                           | retail trade        |
| 120       | ENGRAVER, HAND, SOFT METALS         | engraving; jewelry | 251       | FASHION COORDINATOR                      | retail trade        |
| 230       | ENGRAVER, MACHINE                   | engraving          | 212       | FASHION DESIGNER                         | profess. & kin.     |
| 213       | ENVIRONMENTAL ANALYST               | profess. & kin.    | 322       | FAST FOODS WORKER                        | hotel & rest.       |
| 111       | EQUAL OPPORTUNITY<br>REPRESENTATIVE | government ser.    | 460       | FEEDER                                   | print. & pub.       |
| 340       | EQUIPMENT CLEANER                   | any industry       | 331       | FELTING MACHINE OPERATOR                 | tex. prod., nec     |
| 370       | EQUIPMENT INSTALLER, VEHICLES       | any industry       | 481       | FENCE ERECTOR                            | construction        |
| 111       | ESCROW OFFICER                      | profess. & kin.    | 330       | FIBERGLASS LAMINATOR                     | ship-boat           |
| 111       | ESTATE PLANNER                      | insurance          |           |  | mfg.; vehicles nec. |
| 213       | ESTIMATOR/CRUISER                   | forestry           | 330       | FIBERGLASS MACHINE OPERATOR              | glass products      |
| 221       | ETCHED CIRCUIT PROCESSOR            | electron. comp.    | 213       | FIELD ENGINEER                           | radio-tv broad.     |
| 221       | ETCHER                              | engraving          | 214       | FILE CLERK                               | clerical            |
| 320       | ETCHER, HAND                        | print. & pub.      | 221       | FILLER                                   | tex. prod., nec     |
| 370       | EVAPORATIVE COOLER INSTALLER        | any industry       | 230       | FILM DEVELOPER                           | motion picture      |
| 111       | EXAMINER                            | government ser.    | 230       | FILM OR VIDEOTAPE EDITOR                 | motion picture      |
| 390       | EXERCISE PHYSIOLOGIST               | medical ser.       | 230       | FILM PRINTER                             | motion picture      |
| 491       | EXERCISER, HORSE                    | amuse. & rec.      | 214       | FILM OR TAPE LIBRARIAN                   | clerical            |
| 380       | EXHIBIT BUILDER                     | museums            | 331       | FILTER OPERATOR                          | any industry        |
| 111       | EXPEDITER                           | clerical           | 460       | FILTER PRESS OPERATOR                    | any industry        |
| 360       | EXPEDITER, MATERIAL                 | clerical           | 320       | FINAL ASSEMBLER                          | office machines     |
| 380       | EXPERIMENTAL AIRCRAFT<br>MECHANIC   | aircraft mfg.      | 110       | FINANCIAL PLANNER                        | profess. & kin.     |
| 213       | EXTERMINATOR                        | business ser.      | 110       | FINANCIAL AIDS OFFICER                   | education           |
| 480       | EXTERMINATOR, TERMITE               | business ser.      | 120       | FINGERNAIL FORMER                        | personal ser.       |

| Group No. | Occupation                   | Industry                 |
|-----------|------------------------------|--------------------------|
| 490       | FIRE FIGHTER                 | any industry             |
| 490       | FIRE LOOKOUT                 | forestry                 |
| 490       | FIRE RANGER                  | forestry                 |
| 320       | FIRE EXTINGUISHER REPAIRER   | any industry             |
| 490       | FIRE INSPECTOR               | government serv.         |
| 332       | FIRER, HIGH PRESSURE         | any industry             |
| 320       | FIRESETTER                   | elec. equip.             |
| 360       | FIREWORKS DISPLAY SPECIALIST | any industry             |
| 490       | FISH AND GAME WARDEN         | government ser.          |
| 322       | FISH CLEANER                 | can. & preserv.          |
| 491       | FISH FARMER                  | fishing & hunt.          |
| 491       | FISH HATCHERY LABORER        | fishing & hunt.          |
| 492       | FISHER, DIVING               | fishing & hunt.          |
| 491       | FISHER, LINE                 | fishing & hunt.          |
| 491       | FISHER, NET                  | fishing & hunt.          |
| 481       | FITTER                       | construction, pipe lines |
| 430       | FITTER, METAL                | any industry             |
| 320       | FIXTURE REPAIRER-FABRICATOR  | any industry             |
| 213       | FLAGGER, TRAFFIC CONTROL     | construction             |
| 230       | FLATWORK FINISHER            | laundry & rel.           |
| 322       | FLIGHT ATTENDANT             | air trans.               |
| 212       | FLIGHT ENGINEER              | air trans.               |
| 211       | FLIGHT INFORMATION EXPEDITER | air trans.               |
| 380       | FLOOR LAYER                  | construction             |
| 480       | FLOOR FINISHER HELPER        | construction             |
| 221       | FLORIST                      | retail trade             |
| 460       | FLOUR BLENDER                | grain-feed mills         |
| 230       | FOLDER SEAMER, AUTOMATIC     | any industry             |
| 230       | FOLDING MACHINE OPERATOR     | print. & pub.            |
| 330       | FOLDING MACHINE OPERATOR     | paper goods              |
| 330       | FOLDING MACHINE OPERATOR     | textile                  |
| 322       | FOOD ASSEMBLER, KITCHEN      | hotel & rest.            |
| 492       | FOREST WORKER                | forestry                 |
| 490       | FOREST FIRE FIGHTER          | forestry                 |
| 213       | FORESTER                     | profess. & kin.          |
| 491       | FORESTER AIDE                | forestry                 |
| 460       | FORGE HELPER                 | forging                  |
| 430       | FORGING PRESS OPERATOR       | forging                  |
| 351       | FORKLIFT OPERATOR            | any industry             |
| 481       | FORM BUILDER                 | construction             |
| 480       | FORM STRIPPER                | construction             |

| Group No. | Occupation                                | Industry                |
|-----------|---|-------------------------|
| 480       | FORM TAMPER                               | construction            |
| 480       | FORM TAMPER OPERATOR                      | construction            |
| 320       | FORMER, HAND                              | any industry            |
| 331       | FORMING MACHINE OPERATOR                  | glass mfg.              |
| 111       | FORMS ANALYST                             | profess. & kin.         |
| 331       | FOURDRINIER MACHINE OPERATOR              | paper & pulp            |
| 470       | FRAME REPAIRER                            | furniture               |
| 370       | FRAME STRAIGHTENER                        | motor-bicycles          |
| 230       | FREEZER OPERATOR                          | dairy products          |
| 491       | FRUIT PICKER                              | agriculture             |
| 360       | FRUIT BUYING INSPECTOR                    | can. & preserv.         |
| 331       | FRUIT GRADER OPERATOR                     | agriculture             |
| 332       | FUEL ATTENDANT, PLANT                     | any industry            |
| 480       | FUMIGATOR                                 | business ser.           |
| 212       | FUND RAISER                               | nonprofit org.          |
| 340       | FUNERAL ATTENDANT                         | personal ser.           |
| 560       | FUNERAL CAR CHAUFFEUR                     | personal ser.           |
| 212       | FUNERAL DIRECTOR                          | personal ser.           |
| 341       | FURNACE CLEANER                           | any industry            |
| 380       | FURNACE INSTALLER AND REPAIRER, HOT AIR   | any industry; utilities |
| 321       | FURNITURE ASSEMBLER                       | furniture               |
| 470       | FURNITURE ASSEMBLER/HEAVY                 | woodworking             |
| 360       | FURNITURE CRATER                          | any industry            |
| 221       | FURNITURE FINISHER                        | woodworking             |
| 560       | FURNITURE MOVER                           | motor trans.            |
| 321       | FURNITURE UPHOLSTERER                     | any industry            |
| 221       | FURRIER                                   | fur goods               |
| 370       | GARAGE SERVICER, TRANSPORTATION EQUIPMENT | any industry            |
| 560       | GARBAGE COLLECTOR, MANUAL                 | motor trans.            |
| 491       | GARDENER                                  | domestic ser.           |
| 221       | GARMENT CUTTER, HAND                      | any industry            |
| 321       | GARMENT CUTTER, MACHINE                   | any industry            |
| 332       | GAS COMPRESSOR OPERATOR                   | any industry            |
| 332       | GAS ENGINE OPERATOR                       | any industry            |
| 320       | GAS METER ADJUSTER                        | utilities               |
| 212       | GATE AGENT                                | air trans.              |
| 213       | GEOLOGIST                                 | profess. & kin.         |
| 221       | GIFT WRAPPER                              | retail trade            |
| 221       | GILDER, METAL LEAF                        | any industry            |
| 230       | GINNER                                    | agriculture             |

| Group No. | Occupation                             | Industry         | Group No. | Occupation   | Industry                        |
|-----------|--|------------------|-----------|--|---------------------------------|
| 221       | GLASS BLOWER, HAND                     | glass mfg        | 290       | HAIR STYLIST                                       | personal ser.                   |
| 420       | GLASS CUTTER                           | any industry     | 211       | HAND LABELER                                       | any industry                    |
| 221       | GLASS FINISHER                         | glass products   | 380       | HANDYPERSON  | any industry                    |
| 370       | GLASS INSTALLER                        | automotive ser.  | 110       | HARBOR MASTER                                      | government ser.                 |
| 370       | GLASS INSTALLER                        | woodworking      | 380       | HARDWOOD FLOOR LAYER                               | construction                    |
| 321       | GLASS POLISHER                         | glass mfg.       | 320       | HARNESS MAKER                                      | leather prod.                   |
| 380       | GLAZIER                                | construction     | 230       | HAT AND CAP SEWER                                  | hat & cap                       |
| 330       | GLUER                                  | woodworking      | 110       | HAZARDOUS WASTE MANAGEMENT<br>SPECIALIST           | government ser.                 |
| 251       | GOLF COURSE RANGER                     | amuse. & rec.    | 110       | HEARING OFFICER                                    | government ser.                 |
| 390       | GOLF INSTRUCTOR                        | amuse. & rec.    | 112       | HEARING REPORTER                                   | clerical                        |
| 493       | GOLFER, PROFESSIONAL                   | amuse. & rec.    | 330       | HEAT TREATER                                       | heat treating                   |
| 340       | GOLF RANGE ATTENDANT                   | amuse. & rec.    | 430       | HEATER   | forging                         |
| 360       | GRAINER, MACHINE                       | any industry     | 380       | HEATING AND AIR CONDITIONING<br>INSTALLER-SERVICER | construction                    |
| 110       | GRANT COORDINATOR                      | profess. & kin.  | 230       | HEMMER, AUTOMATIC                                  | tex. prod., nec                 |
| 230       | GRANULATOR OPERATOR                    | sugar & conf.    | 420       | HIDE PULLER  | meat products                   |
| 120       | GRAPHIC DESIGNER                       | profess. & kin.  | 480       | HOD CARRIER  | construction                    |
| 480       | GRAVE DIGGER                           | real estate      | 351       | HOISTING ENGINEER                                  | any industry                    |
| 340       | GREASER                                | any industry     | 111       | HOLTER SCANNING TECHNICIAN                         | medical ser.                    |
| 460       | GREEN CHAIN OFFBEARER                  | millwork-plywood | 340       | HOME ATTENDANT                                     | personal ser.                   |
| 331       | GRINDER OPERATOR                       | grain-feed mills | 491       | HORSESHOER   | agriculture                     |
| 320       | GRINDER OPERATOR, PRECISION            | machine shop     | 213       | HORTICULTURIST                                     | profess. & kin.                 |
| 330       | GRINDER SET-UP OPERATOR,<br>CENTERLESS | machine shop     | 111       | HOSPITAL ADMITTING CLERK                           | medical ser.                    |
| 330       | GRINDER, BENCH                         | any industry     | 240       | HOST/HOSTESS                                       | any industry                    |
| 321       | GRINDER, DISK, BELT OR WHEEL           | any industry     | 211       | HOTEL CLERK  | hotel & rest.                   |
| 330       | GRINDER, TOOL                          | any industry     | 470       | HOUSEHOLD APPLIANCE INSTALLER                      | any industry                    |
| 460       | GRINDER-CHIPPER, ROUGH                 | any industry     | 340       | HOUSEKEEPER, DOMESTIC                              | domestic ser.; hotel<br>& rest. |
| 330       | GRINDING MACHINE TENDER                | machine shop     | 332       | HYDROELECTRIC STATION<br>OPERATOR                  | utilities                       |
| 482       | GRIP                                   | amuse. & rec.    | 331       | ICE CREAM MAKER                                    | dairy products                  |
| 482       | GRIP, PROPERTY HANDLER                 | motion picture   | 460       | ICE CUTTER   | food prep., nec                 |
| 482       | GRIP, STAGE CONSTRUCTION               | motion picture   | 120       | ILLUSTRATOR  | profess. & kin.                 |
| 214       | GROCERY CHECKER                        | retail trade     | 110       | IMPORT-EXPORT AGENT                                | any industry                    |
| 230       | GROMMET MACHINE OPERATOR               | any industry     | 111       | INDUSTRIAL ENGINEER                                | profess. & kin.                 |
| 491       | GROOM                                  | any industry     | 213       | INDUSTRIAL HYGIENIST                               | profess. & kin.                 |
| 491       | GROUNDKEEPER                           | any industry     | 111       | INFORMATION CLERK                                  | clerical                        |
| 490       | GROUP SUPERVISOR                       | government ser.  | 111       | INFORMATION AND REFERRAL AIDE                      | government ser.                 |
| 490       | GUARD, CORRECTIONAL FACILITY           | government ser.  | 230       | INJECTION WAX MOLDER                               | foundry; jewelry-<br>silver.    |
| 240       | GUARD, SCHOOL-CROSSING                 | government ser.  |           |  |                                 |
| 590       | GUIDE, ALPINE                          | personal ser.    |           |  |                                 |
| 213       | GUIDE, ESTABLISHMENT                   | any industry     |           |  |                                 |
| 491       | GUIDE, HUNTING AND FISHING             | amuse. & rec.    |           |  |                                 |
| 220       | GUNSMITH                               | any industry     |           |  |                                 |

| Group No. | Occupation                            | Industry        | Group No. | Occupation                                     | Industry        |
|-----------|---------------------------------------|-----------------|-----------|--|-----------------|
| 230       | INJECTION MOLDING MACHINE TENDER      | plastic prod.   | 120       | INTEGRATED CIRCUIT LAYOUT DESIGNER             | profess. & kin. |
| 330       | INKER                                 | print. & pub.   | 214       | INTERIOR DESIGNER                              | profess. & kin. |
| 460       | INMATE, LABORER                       | any industry    | 220       | INTERNIST                                      | medical ser.    |
| 120       | INSPECTOR                             | jewelry-silver. | 210       | INTERPRETER                                    | profess. & kin. |
| 221       | INSPECTOR                             | plastic prod.   | 212       | INTERPRETER, DEAF                              | profess. & kin. |
| 221       | INSPECTOR                             | pharmaceut.     | 111       | INTERVIEWER, EMPLOYMENT                        | profess. & kin. |
| 213       | INSPECTOR, AGRICULTURAL COMMODITIES   | government ser. | 212       | INTERVIEWER/SURVEY WORKER                      | clerical        |
| 213       | INSPECTOR, AIR CARRIER                | government ser. | 360       | INVENTORY CLERK                                | clerical        |
| 213       | INSPECTOR, AIRPLANE                   | air trans.      | 251       | INVESTIGATOR                                   | government ser. |
| 221       | INSPECTOR, CANNED FOOD RECONDITIONING | can. & preserv. | 111       | INVESTIGATOR, CREDIT FRAUD                     | retail trade    |
| 320       | INSPECTOR, EDDY CURRENT               | steel & rel.    | 251       | INVESTIGATOR, INSIDE/OUTSIDE                   | business ser.   |
| 221       | INSPECTOR, ELECTRONICS                | comm. equip.    | 490       | INVESTIGATOR, VICE                             | government ser. |
| 221       | INSPECTOR, FABRIC                     | any industry    | 110       | INVESTMENT ANALYST                             | financial       |
| 251       | INSPECTOR, FOOD AND DRUG              | government ser. | 111       | INVOICE CONTROL CLERK                          | clerical        |
| 321       | INSPECTOR, FURNITURE                  | furniture       | 491       | IRRIGATOR, GRAVITY FLOW                        | agriculture     |
| 221       | INSPECTOR, GARMENT                    | any industry    | 491       | IRRIGATOR, SPRINKLING SYSTEM                   | agriculture     |
| 221       | INSPECTOR, GLASS                      | any industry    | 480       | JACKHAMMER OPERATOR                            | mine & quarry   |
| 251       | INSPECTOR, HEALTH CARE FACILITIES     | government ser. | 490       | JAILER   | government ser. |
| 120       | INSPECTOR, JEWEL                      | clock & watch   | 340       | JANITOR  | any industry    |
| 213       | INSPECTOR, METAL FABRICATING          | any industry    | 120       | JEWELER  | jewelry-silver. |
| 221       | INSPECTOR, METAL FINISH               | any industry    | 320       | JIG MAKER                                      | machine shop    |
| 221       | INSPECTOR, PRINTED CIRCUIT BOARDS     | electron. comp. | 330       | JIG-BORING MACHINE OPERATOR, NUMERICAL CONTROL | machine shop    |
| 251       | INSPECTOR, QUALITY ASSURANCE          | government ser. | 330       | JIGSAW OPERATOR                                | woodworking     |
| 251       | INSPECTOR, TRANSPORTATION             | motor trans.    | 212       | JOB ANALYST                                    | profess. & kin. |
| 213       | INSPECTOR, WEIGH STATION              | government ser. | 110       | JOB DEVELOPMENT SPECIALIST                     | profess. & kin. |
| 493       | INSTRUCTOR, AEROBICS                  | amuse. & rec.   | 320       | JOB SETTER, HONING                             | machine shop    |
| 251       | INSTRUCTOR, DRIVING                   | education       | 590       | JOCKEY   | amuse. & rec.   |
| 390       | INSTRUCTOR, PHYSICAL EDUCATION        | education       | 380       | JOINER   | ship-boat mfg.  |
| 390       | INSTRUCTOR, SPORTS                    | amuse. & rec.   | 330       | JOINTER OPERATOR                               | woodworking     |
| 214       | INSTRUCTOR, VOCATIONAL TRAINING       | education       | 110       | JUDGE  | government ser. |
| 320       | INSTRUMENT REPAIRER                   | any industry    | 221       | KEY CUTTER                                     | any industry    |
| 220       | INSTRUMENT MAKER AND REPAIRER         | any industry    | 230       | KICK PRESS OPERATOR                            | any industry    |
| 380       | INSULATION WORKER                     | construction    | 230       | KILN OPERATOR                                  | woodworking     |
| 221       | INTEGRATED CIRCUIT FABRICATOR         | electron. comp. | 360       | KILN WORKER                                    | pottery & porc. |
|           |                                       |                 | 322       | KITCHEN HELPER                                 | hotel & rest.   |
|           |                                       |                 | 230       | KNITTING MACHINE OPERATOR, <u>HOSIERY</u>      | knitting        |
|           |                                       |                 | 330       | KNITTING MACHINE OPERATOR                      | knitting        |
|           |                                       |                 | 492       | KNOT BUMPER                                    | logging         |



| Group No. | Occupation                             | Industry            | Group No. | Occupation                      | Industry                  |
|-----------|--|---------------------|-----------|---------------------------------|---------------------------|
| 212       | LABORATORY ASSISTANT, BLOOD AND PLASMA | medical ser.        | 340       | LAUNDERER, HAND                 | laundry & rel.            |
| 340       | LABORATORY EQUIPMENT CLEANER           | any industry        | 491       | LAWN SERVICE WORKER             | agriculture               |
| 220       | LABORATORY TESTER                      | any industry        | 110       | LAWYER                          | profess. & kin.           |
| 460       | LABORER                                | meat products       | 320       | LAY-OUT MAKER                   | sheet metal; any industry |
| 460       | LABORER                                | pharmaceut.         | 120       | LAY-OUT TECHNICIAN              | optical goods             |
| 460       | LABORER, CHEMICAL PROCESSING           | chemical            | 491       | LEAD PONY RIDER, RACETRACK      | amuse. & rec.             |
| 480       | LABORER, CONCRETE PAVING               | construction        | 221       | LEATHER CUTTER                  | leather prod.             |
| 480       | LABORER, CONCRETE MIXING PLANT         | construction        | 230       | LEATHER GARMENT PRESSER         | laundry & rel.            |
| 480       | LABORER, CONSTRUCTION                  | construction        | 320       | LEATHER WORKER                  | leather prod.             |
| 491       | LABORER, FARM                          | agriculture         | 110       | LEGISLATIVE ASSISTANT           | government ser.           |
| 360       | LABORER, GENERAL                       | plastic prod.       | 220       | LENS EXAMINER                   | optical goods             |
| 460       | LABORER, GENERAL                       | machine shop        | 230       | LENS HARDENER                   | optical goods             |
| 460       | LABORER, GENERAL                       | nonfer. metal       | 320       | LENS MOUNTER, OPTICAL           | optical goods             |
| 460       | LABORER, GENERAL                       | steel & rel.        | 220       | LENS POLISHER, HAND             | optical goods             |
| 460       | LABORER, MILL                          | woodworking         | 220       | LENS FABRICATING MACHINE TENDER | optical goods             |
| 460       | LABORER, PETROLEUM REFINERY            | petrol. refin.      | 214       | LIBRARIAN                       | library                   |
| 480       | LABORER, ROAD                          | construction        | 212       | LIBRARIAN, CATALOG              | library                   |
| 460       | LABORER, SHIPYARD                      | ship-boat mfg.      | 214       | LIBRARY ASSISTANT               | library                   |
| 480       | LABORER, WRECKING & SALVAGING          | construction        | 211       | LICENSE CLERK                   | government ser.           |
| 460       | LABORER, YARD                          | paper & pulp        | 590       | LIFEGUARD                       | amuse. & rec.             |
| 331       | LACQUERER                              | plastic prod.       | 250       | LIGHT RAIL CAR OPERATOR         | r.r. trans.               |
| 330       | LAMINATING MACHINE FEEDER              | wood prod., nec.    | 341       | LIGHT FIXTURE SERVICER          | any industry              |
| 330       | LAMINATING MACHINE OPERATOR            | furniture           | 482       | LINE INSTALLER-REPAIRER         | tel. & tel.; utilities    |
| 430       | LAMINATING PRESS OPERATOR              | plastic prod.       | 341       | LINE SERVICE ATTENDANT          | air trans.                |
| 330       | LAMINATOR                              | ship-boat           | 213       | LINE WALKER                     | petrol. & gas             |
|           |  | mfg.; vehicles nec. | 360       | LINEN ROOM CLERK                | hotel & rest.             |
| 213       | LAND SURVEYOR                          | profess. & kin.     | 110       | LITERARY AGENT                  | business ser.             |
| 491       | LANDSCAPE GARDENER                     | agriculture         | 491       | LIVESTOCK YARD ATTENDANT        | any industry              |
| 370       | LASER TECHNICIAN/REPAIRER              | electron. comp.     | 460       | LOADER/UNLOADER                 | any industry              |
| 230       | LASER BEAM MACHINE OPERATOR            | welding             | 110       | LOAN OFFICER                    | financial                 |
| 230       | LASER BEAM TRIM OPERATOR               | electron. comp.     | 212       | LOCATION MANAGER                | motion picture            |
| 330       | LATHE OPERATOR, NUMERICAL CONTROL      | machine shop        | 120       | LOCK ASSEMBLER                  | cutlery-hrdwr.            |
| 330       | LATHE OPERATOR, SWING-TYPE             | woodworking         | 221       | LOCKSMITH                       | any industry              |
| 330       | LATHE OPERATOR, WOOD-TURNING           | woodworking         | 250       | LOCOMOTIVE ENGINEER             | r.r. trans.               |
| 460       | LATHE SPOTTER                          | millwork-plywood    | 213       | LOG SCALER                      | logging                   |
| 330       | LATHE TENDER                           | machine shop        | 491       | LOG SORTER                      | logging                   |
| 380       | LATHER, METAL OR WOOD                  | construction        | 492       | LOGGER, ALL-ROUND               | logging                   |
|           |  |                     | 351       | LOGGING TRACTOR OPERATOR        | forestry                  |
|           |  |                     | 370       | LOOM FIXER                      | narrow fabrics            |
|           |  |                     | 340       | LUBRICATION SERVICER            | automotive ser.           |

| Group No. | Occupation                                     | Industry         |
|-----------|--|------------------|
| 320       | LUGGAGE REPAIRER                               | any industry     |
| 221       | LUMBER GRADER                                  | woodworking      |
| 460       | LUMBER HANDLER/STACKER                         | woodworking      |
| 360       | LUMBER SORTER                                  | woodworking      |
| 350       | LUNCH TRUCK DRIVER                             | hotel & rest.    |
| 370       | MACHINE ASSEMBLER/BUILDER                      | machinery mfg.   |
| 360       | MACHINE FEEDER                                 | any industry     |
| 460       | MACHINE FEEDER, RAW STOCK                      | tex. prod., nec  |
| 330       | MACHINE MOLDER                                 | foundry          |
| 230       | MACHINE OPERATOR, ROOFING MATERIALS            | build. mat., nec |
| 320       | MACHINE SET-UP OPERATOR                        | machine shop     |
| 221       | MACHINE TESTER                                 | office machines  |
| 320       | MACHINIST                                      | machine shop     |
| 320       | MACHINIST, AUTOMOTIVE                          | automotive ser.  |
| 370       | MACHINIST, BENCH                               | machinery mfg.   |
| 112       | MAGNETIC TAPE COMPOSER OPERATOR                | print. & pub.    |
| 211       | MAIL CLERK                                     | clerical         |
| 230       | MAILING MACHINE OPERATOR                       | print. & pub.    |
| 370       | MAINTENANCE MACHINIST                          | machine shop     |
| 470       | MAINTENANCE MECHANIC                           | any industry     |
| 380       | MAINTENANCE REPAIRER, BUILDING                 | any industry     |
| 470       | MAINTENANCE REPAIRER, INDUS. MACHINES & PLANTS | any industry     |
| 480       | MAINTENANCE WORKER, MUNICIPAL                  | government ser.  |
| 311       | MAKE-UP ARTIST, BODY                           | amuse. & rec.    |
| 110       | MANAGEMENT ANALYST                             | profess. & kin.  |
| 212       | MANAGEMENT TRAINEE                             | any industry     |
| 212       | MANAGER, ADVERTISING AGENCY                    | business ser.    |
| 212       | MANAGER, APARTMENT HOUSE                       | real estate      |
| 213       | MANAGER, AUTOMOBILE SERVICE STATION            | retail trade     |
| 110       | MANAGER, BENEFITS                              | profess. & kin.  |
| 110       | MANAGER, BUS TRANSPORTATION                    | motor trans.     |
| 212       | MANAGER, CONVENTION                            | hotel & rest.    |
| 212       | MANAGER, CUSTOMER SERVICES                     | business ser.    |
| 213       | MANAGER, DAIRY FARM                            | agriculture      |
| 110       | MANAGER, DATA PROCESSING                       | profess. & kin.  |
| 110       | MANAGER, DEPARTMENT                            | any industry     |

| Group No. | Occupation                             | Industry                 |
|-----------|--|--------------------------|
| 212       | MANAGER, FAST FOOD SERVICES            | retail trade             |
| 110       | MANAGER, HOTEL OR MOTEL                | hotel & rest.            |
| 212       | MANAGER, HOTEL RECREATIONAL FACILITIES | amuse. & rec.            |
| 212       | MANAGER, LABOR RELATIONS               | profess. & kin.          |
| 212       | MANAGER, MOBILE HOME PARK              | real estate              |
| 213       | MANAGER, NURSERY                       | agriculture              |
| 111       | MANAGER, OFFICE                        | any industry             |
| 212       | MANAGER, PARTS                         | retail trade             |
| 111       | MANAGER, PERSONNEL                     | profess. & kin.          |
| 213       | MANAGER, PROPERTY                      | real estate              |
| 212       | MANAGER, QUALITY CONTROL               | profess. & kin.          |
| 212       | MANAGER, RETAIL STORE                  | retail trade             |
| 212       | MANAGER, STAGE                         | amuse. & rec.            |
| 212       | MANAGER, THEATER                       | amuse. & rec.            |
| 110       | MANAGER, TRAFFIC                       | air trans.; any industry |
| 212       | MANAGER, VEHICLE LEASING AND RENTAL    | automotive ser.          |
| 212       | MANAGER, WAREHOUSE                     | any industry             |
| 120       | MANICURIST                             | personal ser.            |
| 330       | MARBLE POLISHER, MACHINE               | stonework                |
| 481       | MARBLE SETTER                          | construction             |
| 480       | MARBLE SETTER HELPER                   | construction             |
| 211       | MARKER                                 | retail trade             |
| 111       | MARKET RESEARCH ANALYST                | profess. & kin.          |
| 221       | MASKER, PARTS                          | any industry             |
| 311       | MASSEUR/MASSEUSE                       | personal ser.            |
| 212       | MASTER CONTROL OPERATOR                | radio-tv broad.          |
| 221       | MAT CUTTER, PICTURE FRAMES             | wood prod., nec          |
| 360       | MATERIAL EXPEDITER                     | clerical                 |
| 460       | MATERIAL STACKER                       | any industry             |
| 321       | MATTRESS MAKER                         | furniture                |
| 322       | MEAT CARVER, DISPLAY                   | hotel & rest.            |
| 322       | MEAT CLERK                             | retail trade             |
| 322       | MEAT CUTTER                            | retail trade             |
| 331       | MEAT GRINDER                           | meat products            |
| 380       | MECHANIC, AIRCRAFT                     | aircraft mfg.            |
| 370       | MECHANIC, AUTOMOBILE                   | automotive ser.          |
| 470       | MECHANIC, DIESEL                       | any industry             |
| 370       | MECHANIC, FRONT-END                    | automotive ser.          |
| 481       | MECHANIC, POWERHOUSE                   | utilities                |

| Group No. | Occupation                                     | Industry        |
|-----------|--|-----------------|
| 380       | MECHANIC, RADAR                                | any industry    |
| 370       | MECHANIC, RADIATOR                             | automotive ser. |
| 481       | MECHANIC, REFRIGERATION                        | svc. ind. mach. |
| 370       | MECHANIC, ROCKET ENGINE COMPONENT              | aircraft mfg.   |
| 470       | MECHANIC, SAFE AND VAULT                       | business ser.   |
| 370       | MECHANIC, SMALL ENGINE                         | any industry    |
| 370       | MECHANIC, TRACTOR                              | automotive ser. |
| 370       | MECHANIC, TRANSMISSION                         | automotive ser. |
| 370       | MECHANIC, TUNE-UP                              | automotive ser. |
| 214       | MEDIA SPECIALIST, SCHOOL LIBRARY               | library         |
| 212       | MEDICAL ASSISTANT, OFFICE                      | medical ser.    |
| 220       | MEDICAL LABORATORY TECHNOLOGIST                | medical ser.    |
| 470       | MEDICAL EQUIPMENT REPAIRER                     | protective dev. |
| 212       | MEDICAL LABORATORY TECHNICIAN                  | medical ser.    |
| 211       | MEDICAL RECORD CLERK                           | medical ser.    |
| 321       | MELTER   | jewelry-silver. |
| 340       | MENTAL RETARDATION AIDE, INSTITUTION           | medical ser.    |
| 213       | MESSENGER, NON-DRIVING                         | clerical        |
| 430       | METAL FABRICATOR                               | any industry    |
| 321       | METAL GRINDER AND FINISHER                     | any industry    |
| 321       | METAL SPRAYER, PRODUCTION                      | any industry    |
| 331       | METAL CLEANER, IMMERSION                       | any industry    |
| 230       | METALLIZATION EQUIPMENT TENDER, SEMICONDUCTORS | comm. equip.    |
| 212       | METALLURGICAL TESTER                           | profess. & kin. |
| 213       | METER READER                                   | utilities       |
| 320       | METER REPAIRER                                 | any industry    |
| 220       | MICROELECTRONICS TECHNICIAN                    | electron. comp. |
| 230       | MICROFILM PROCESSOR                            | business ser.   |
| 212       | MICROPHONE BOOM OPERATOR                       | motion picture  |
| 491       | MILKER, MACHINE                                | agriculture     |
| 331       | MILL OPERATOR                                  | any industry    |
| 320       | MILLING MACHINE OPERATOR, NUMERICAL CONTROL    | machine shop    |
| 481       | MILLWRIGHT                                     | any industry    |
| 480       | MILLWRIGHT HELPER                              | any industry    |
| 213       | MINE INSPECTOR                                 | mine & quarry   |

| Group No. | Occupation                          | Industry        |
|-----------|-------------------------------------|-----------------|
| 560       | MINER                               | mine & quarry   |
| 560       | MINER HELPER                        | mine & quarry   |
| 221       | MINIATURE SET CONSTRUCTOR           | motion picture  |
| 460       | MIXER                               | paint & varnish |
| 460       | MIXER, CLAY                         | brick & tile    |
| 480       | MIXER, CONCRETE                     | construction    |
| 460       | MIXER, DOUGH                        | bakery products |
| 460       | MIXER, FLOUR                        | bakery products |
| 480       | MIXER, MORTAR                       | construction    |
| 221       | MIXER, PAINT (HAND)                 | any industry    |
| 460       | MIXER, PAINT (MACHINE)              | any industry    |
| 331       | MIXER, SAND (MACHINE)               | foundry         |
| 331       | MIXING MACHINE OPERATOR             | food prep., nec |
| 460       | MIXING MACHINE OPERATOR             | any industry    |
| 380       | MOBILE HOME ASSEMBLER               | mfd. bldgs.     |
| 212       | MOBILE HOME PARK MANAGER            | real estate     |
| 240       | MODEL                               | garment         |
| 221       | MODEL MAKER                         | any industry    |
| 240       | MODEL, ARTISTS'                     | any industry    |
| 213       | MODEL, PHOTOGRAPHERS'               | any industry    |
| 321       | MOLD REPAIRER                       | any industry    |
| 221       | MOLD AND MODEL MAKER, PLASTER       | concrete prod.  |
| 330       | MOLDER                              | aircraft mfg.   |
| 420       | MOLDER, HAND                        | brick & tile    |
| 320       | MOLDER, PATTERN                     | foundry         |
| 230       | MOLDING MACHINE TENDER, COMPRESSION | plastic prod.   |
| 340       | MORGUE ATTENDANT                    | medical ser.    |
| 230       | MOTION PICTURE PROJECTIONIST        | amuse. & rec.   |
| 351       | MOTOR-GRADER OPERATOR               | construction    |
| 351       | MOTORBOAT OPERATOR                  | any industry    |
| 370       | MOTORCYCLE ASSEMBLER                | motor-bicycles  |
| 250       | MOTORCYCLE DRIVER, DELIVERY         | retail trade    |
| 490       | MOTORCYCLE POLICE OFFICER           | government ser. |
| 370       | MOTORCYCLE REPAIRER                 | automotive ser. |
| 120       | MOUNTER, HAND                       | photofinishing  |
| 310       | MRI TECHNOLOGIST                    | medical ser.    |
| 370       | MUFFLER INSTALLER                   | automotive ser. |
| 460       | MUNITIONS HANDLER                   | ordnance        |
| 212       | MUSEUM ATTENDANT & GUIDE            | museums         |
| 380       | MUSEUM PREPARATOR                   | museums         |

| Group No. | Occupation                               | Industry        |
|-----------|--|-----------------|
| 220       | MUSICIAN, INSTRUMENTAL                   | amuse. & rec.   |
| 330       | NAILING MACHINE OPERATOR                 | any industry    |
| 111       | NAVIGATOR                                | air trans.      |
| 360       | NEWS GATHERING TECHNICIAN                | radio-tv broad. |
| 210       | NEWSCASTER                               | radio-tv broad. |
| 330       | NIBBLER OPERATOR                         | any industry    |
| 111       | NIGHT AUDITOR                            | hotel & rest.   |
| 460       | NITROGLYCERIN DISTRIBUTOR                | chemical        |
| 310       | NUCLEAR MEDICINE TECHNOLOGIST            | medical ser.    |
| 330       | NUMERICAL CONTROL MACHINE OPERATOR       | machine shop    |
| 340       | NURSE AIDE                               | medical ser.    |
| 220       | NURSE ANESTHETIST                        | medical ser.    |
| 212       | NURSE CASE MANAGER                       | medical ser.    |
| 311       | NURSE, GENERAL DUTY                      | medical ser.    |
| 311       | NURSE, LICENSED VOCATIONAL               | medical ser.    |
| 311       | NURSE, PRIVATE DUTY                      | medical ser.    |
| 212       | NURSE, SCHOOL                            | medical ser.    |
| 311       | NURSE-MIDWIFE                            | medical ser.    |
| 460       | NUT ROASTER                              | can. & preserv. |
| 212       | OCCUPATIONAL ANALYST                     | profess. & kin. |
| 311       | OCCUPATIONAL THERAPIST                   | medical ser.    |
| 340       | OCCUPATIONAL THERAPY AIDE                | medical ser.    |
| 213       | OCCUPATIONAL SAFETY AND HEALTH INSPECTOR | government ser. |
| 211       | OFFICE CLERK, GENERAL                    | clerical        |
| 320       | OFFICE MACHINE SERVICER                  | any industry    |
| 330       | OFFSET PRESS HELPER                      | print. & pub.   |
| 230       | OFFSET DUPLICATING MACHINE OPERATOR      | clerical        |
| 230       | OFFSET PRESS OPERATOR                    | print. & pub.   |
| 480       | OIL WELL DRILLER                         | petrol. & gas   |
| 340       | OILER                                    | any industry    |
| 332       | OPERATING ENGINEER                       | any industry    |
| 332       | OPERATING ENGINEER, REFRIGERATION        | any industry    |
| 111       | OPTICAL ENGINEER                         | profess. & kin. |
| 220       | OPTICIAN, DISPENSING                     | optical goods   |
| 220       | OPTICIAN, LENS GRINDER                   | optical goods   |
| 220       | OPTOMETRIST                              | medical ser.    |
| 491       | ORCHARD SPRAYER, HAND                    | agriculture     |

| Group No. | Occupation                        | Industry        |
|-----------|-----------------------------------|-----------------|
| 360       | ORDER CHECKER                     | clerical        |
| 111       | ORDER CLERK                       | clerical        |
| 214       | ORDER CLERK                       | clerical        |
| 214       | ORDER FILLER, CATALOG SALES       | retail trade    |
| 460       | ORDERLY                           | medical ser.    |
| 481       | ORNAMENTAL IRON WORKER            | construction    |
| 120       | ORTHODONTIC TECHNICIAN            | protective dev. |
| 320       | ORTHOTICS TECHNICIAN              | protective dev. |
| 310       | ORTHOTIST                         | medical ser.    |
| 331       | OVEN TENDER                       | bakery products |
| 351       | OVERHEAD CRANE OPERATOR           | any industry    |
| 331       | OXIDIZED FINISH PLATER            | any industry    |
| 221       | OXIDIZER                          | jewelry-silver. |
| 330       | PACKAGE SEALER, MACHINE           | any industry    |
| 330       | PACKAGER, MACHINE                 | any industry    |
| 360       | PACKER, AGRICULTURAL PRODUCE      | agriculture     |
| 360       | PACKER, HAND                      | any industry    |
| 380       | PAINTER                           | construction    |
| 480       | PAINTER HELPER                    | construction    |
| 221       | PAINTER, AIRBRUSH                 | any industry    |
| 482       | PAINTER, BRIDGE, STRUCTURAL STEEL | construction    |
| 321       | PAINTER, BRUSH                    | any industry    |
| 120       | PAINTER, HAND, DECORATIVE         | any industry    |
| 380       | PAINTER, SIGN                     | any industry    |
| 321       | PAINTER, SPRAY GUN                | any industry    |
| 321       | PAINTER, TOUCH-UP                 | any industry    |
| 350       | PAINTER, TRAFFIC LINE             | construction    |
| 380       | PAINTER, TRANSPORTATION EQUIPMENT | aircraft mfg.   |
| 230       | PALLETIZER OPERATOR, AUTOMATIC    | any industry    |
| 230       | PAPER CUTTER, MACHINE             | beverage        |
| 460       | PAPER-BALING MACHINE TENDER       | any industry    |
| 331       | PAPER-MAKING MACHINE OPERATOR     | paper & pulp    |
| 460       | PAPERCUTTING MACHINE OPERATOR     | print. & pub.   |
| 380       | PAPERHANGER                       | construction    |
| 321       | PARACHUTE RIGGER                  | air trans.      |
| 211       | PARALEGAL                         | profess. & kin. |
| 490       | PARAMEDIC                         | medical ser.    |

| Group No. | Occupation                        | Industry         | Group No. | Occupation                                  | Industry         |
|-----------|-----------------------------------|------------------|-----------|---|------------------|
| 211       | PARIMUTUEL TICKET SELLER          | amuse. & rec.    | 221       | PIANO TUNER                                 | any industry     |
| 490       | PARK RANGER                       | government ser.  | 491       | PICKER, FRUIT                               | agriculture      |
| 250       | PARKING ENFORCEMENT OFFICER       | government ser.  | 330       | PICKING MACHINE OPERATOR                    | any industry     |
| 240       | PARKING LOT ATTENDANT, BOOTH      | automotive serv. | 221       | PICTURE FRAMER                              | retail trade     |
| 214       | PARKING LOT ATTENDANT             | automotive ser.  | 351       | PILE-DRIVER OPERATOR                        | construction     |
| 490       | PAROLE OFFICER                    | profess. & kin.  | 370       | PINSETTER ADJUSTER, AUTOMATIC               | toy-sport equip. |
| 214       | PARTS CLERK                       | clerical         | 380       | PINSETTER MECHANIC, AUTOMATIC               | any industry     |
| 214       | PARTS ORDER AND STOCK CLERK       | clerical         | 380       | PIPE COVERER AND INSULATOR                  | ship-boat mfg.   |
| 460       | PASTEURIZER                       | dairy products   | 481       | PIPE FITTER                                 | construction     |
| 250       | PATROL OFFICER, VOLUNTEER         | government serv. | 480       | PIPE LAYER                                  | construction     |
| 230       | PATTERN-PUNCHING MACHINE OPERATOR | tex. prod., nec  | 481       | PIPE FITTER HELPER                          | construction     |
| 320       | PATTERNMAKER, ALL-AROUND          | foundry          | 480       | PIPE LAYER HELPER                           | construction     |
| 320       | PATTERNMAKER, METAL               | foundry          | 380       | PIPE ORGAN TUNER AND REPAIRER               | any industry     |
| 320       | PATTERNMAKER, WOOD                | foundry          | 480       | PIPELINER                                   | pipe lines       |
| 221       | PEELER, HAND                      | can. & preserv.  | 214       | PIT BOSS/FLOOR PERSON                       | amusement & rec. |
| 230       | PEELER, MACHINE                   | can. & preserv.  | 330       | PLANER OPERATOR                             | woodworking      |
| 320       | PERCUSSION INSTRUMENT REPAIRER    | any industry     | 430       | PLANER OPERATOR, METAL CASTINGS             | machine shop     |
| 310       | PERFUSIONIST                      | medical ser.     | 212       | PLANT ENGINEER                              | profess. & kin.  |
| 390       | PERSONAL TRAINER                  | amuse. & rec.    | 321       | PLASTER MAKER                               | nonmet. min.     |
| 111       | PERSONNEL RECORDS CLERK           | clerical         | 320       | PLASTER MOLDER                              | foundry          |
| 111       | PERSONNEL RECRUITER               | profess. & kin.  | 420       | PLASTER DIE MAKER                           | pottery & porc.  |
| 220       | PHARMACIST                        | medical ser.     | 380       | PLASTERER                                   | construction     |
| 220       | PHLEBOTOMIST                      | medical ser.     | 480       | PLASTERER HELPER                            | construction     |
| 211       | PHOTOCOPYING MACHINE OPERATOR     | clerical         | 230       | PLATEN PRESS FEEDER                         | print. & pub.    |
| 221       | PHOTOENGRAVER                     | print. & pub.    | 230       | PLATEN PRESS OPERATOR                       | print. & pub.    |
| 221       | PHOTOFINISHING LABORATORY WORKER  | photofinishing   | 330       | PLATER                                      | electroplating   |
| 213       | PHOTOGRAPHER                      | amuse. & rec.    | 460       | PLATER, ELECTROLESS, PRINTED CIRCUIT BOARDS | electron. comp.  |
| 212       | PHOTOGRAPHER, STILL               | profess. & kin.  | 460       | PLATER, HOT DIP                             | galvanizing      |
| 221       | PHOTOGRAPHIC PLATE MAKER          | electron. comp.  | 460       | PLATER, PRINTED CIRCUIT BOARD PANELS        | electron. comp.  |
| 213       | PHOTOJOURNALIST                   | print. & pub.    | 221       | PLATER, SEMICONDUCTOR WAFERS & COMPONENTS   | electron. comp.  |
| 230       | PHOTOTYPESETTER OPERATOR          | print. & pub.    | 230       | PLEATING MACHINE OPERATOR                   | any industry     |
| 310       | PHYSIATRIST                       | medical ser.     | 481       | PLUMBER                                     | construction     |
| 311       | PHYSICAL THERAPIST                | medical ser.     | 481       | PLUMBER APPRENTICE                          | construction     |
| 340       | PHYSICAL THERAPY AIDE             | medical ser.     | 481       | PLUMBER HELPER                              | construction     |
| 212       | PHYSICIAN ASSISTANT               | medical ser.     | 370       | PNEUMATIC TOOL REPAIRER                     | any industry     |
| 220       | PHYSICIAN, GENERAL PRACTITIONER   | medical ser.     | 380       | PNEUMATIC TUBE REPAIRER                     | any industry     |
| 320       | PIANO TECHNICIAN                  | any industry     | 220       | PODIATRIST                                  | medical ser.     |
|           |                                   |                  | 251       | POLICE ARTIST                               | government ser.  |

| Group No. | Occupation                            | Industry        |
|-----------|---------------------------------------|-----------------|
| 490       | POLICE CAPTAIN                        | government ser. |
| 111       | POLICE CLERK                          | government ser. |
| 490       | POLICE OFFICER                        | government ser. |
| 490       | POLICE OFFICER, STATE HIGHWAY         | government ser. |
| 120       | POLISHER, EYEGLOSS FRAMES             | optical goods   |
| 321       | POLISHER/BUFFER                       | any industry    |
| 330       | POLISHING MACHINE OPERATOR            | any industry    |
| 212       | POLYGRAPH EXAMINER                    | profess. & kin. |
| 360       | PORTER                                | air trans.      |
| 360       | PORTER, BAGGAGE                       | hotel & rest.   |
| 330       | POTTERY MACHINE OPERATOR              | pottery & porc. |
| 322       | POULTRY DRESSER                       | agriculture     |
| 430       | POWER BRAKE OPERATOR                  | any industry    |
| 230       | POWER BARKER OPERATOR                 | paper & pulp    |
| 332       | POWER PLANT OPERATOR                  | utilities       |
| 330       | POWER PRESS TENDER                    | any industry    |
| 332       | POWER REACTOR OPERATOR                | utilities       |
| 351       | POWER SHOVEL OPERATOR                 | any industry    |
| 481       | POWERHOUSE MECHANIC                   | utilities       |
| 370       | PRECISION ASSEMBLER & REPAIRER        | aircraft mfg.   |
| 320       | PRECISION ASSEMBLER, BENCH            | aircraft mfg.   |
| 110       | PRESIDENT                             | any industry    |
| 230       | PRESS OPERATOR                        | laundry & rel.  |
| 330       | PRESS OPERATOR, CYLINDER              | print. and pub. |
| 430       | PRESS OPERATOR, HEAVY DUTY            | any industry    |
| 331       | PRESS OPERATOR, MEAT                  | meat products   |
| 230       | PRESS OPERATOR, OFFSET                | print. & pub.   |
| 330       | PRESS OPERATOR, ROTOGRAVURE           | print. & pub.   |
| 321       | PRESSER, ALL-AROUND                   | laundry & rel.  |
| 221       | PRESSER, HAND                         | any industry    |
| 321       | PRESSER, MACHINE                      | any industry    |
| 230       | PRINT DEVELOPER, AUTOMATIC            | photofinishing  |
| 221       | PRINTED CIRCUIT BOARD ASSEMBLER, HAND | comm. equip.    |
| 120       | PRINTED CIRCUIT DESIGNER              | profess. & kin. |
| 320       | PRINTER, JOB                          | print. & pub.   |
| 390       | PROBATION OFFICER                     | profess. & kin. |
| 251       | PROCESS SERVER                        | business ser.   |
| 360       | PRODUCE CLERK, RETAIL                 | retail trade    |
| 212       | PRODUCER                              | radio-tv broad. |
| 212       | PROMPTER                              | amuse. & rec.   |
| 211       | PROOFREADER                           | print. & pub.   |

| Group No. | Occupation                          | Industry         |
|-----------|-------------------------------------|------------------|
| 111       | PROOFREADER, PRODUCTION             | print. & pub.    |
| 380       | PROP MAKER                          | amuse. & rec.    |
| 320       | PROSTHETICS TECHNICIAN              | protective dev.  |
| 310       | PROSTHETIST                         | medical ser.     |
| 311       | PSYCHIATRIC TECHNICIAN              | medical ser.     |
| 340       | PSYCHIATRIC WARD ATTENDANT          | medical ser.     |
| 110       | PSYCHOLOGIST, CLINICAL              | profess. & kin.  |
| 110       | PSYCHOLOGIST, COUNSELING            | profess. & kin.  |
| 110       | PUBLIC HEALTH SERVICE OFFICER       | government ser.  |
| 380       | PUBLIC ADDRESS SETTER-UP & SERVICER | any industry     |
| 111       | PUBLIC RELATIONS REPRESENTATIVE     | profess. & kin.  |
| 212       | PULMONARY FUNCTION TECHNICIAN       | medical ser.     |
| 470       | PUMP INSTALLER                      | any industry     |
| 370       | PUMP SERVICER                       | any industry     |
| 330       | PUMP MACHINE OPERATOR               | any industry     |
| 332       | PUMP STATION OPERATOR, WATERWORKS   | waterworks       |
| 330       | PUNCH PRESS OPERATOR                | any industry     |
| 430       | PUNCH PRESS OPERATOR, AUTOMATIC     | any industry     |
| 251       | PURCHASING AGENT                    | profess. & kin.  |
| 111       | PURSER                              | water trans.     |
| 321       | PUTTY GLAZER, POTTERY               | any industry     |
| 221       | QUALITY ASSURANCE MONITOR           | auto. mfg.       |
| 212       | QUALITY CONTROL TECHNICIAN          | profess. & kin.  |
| 480       | QUARRY WORKER                       | mine & quarry    |
| 120       | QUICK SKETCH ARTIST                 | amuse. & rec.    |
| 221       | RACKET STRINGER                     | toy-sport equip. |
| 330       | RADIAL ARM SAW OPERATOR             | woodworking      |
| 320       | RADIAL DRILL PRESS SETUP            | machine shop     |
| 310       | RADIATION THERAPY TECHNOLOGIST      | medical ser.     |
| 212       | RADIOGRAPHER, INDUSTRIAL            | any industry     |
| 310       | RADIOLOGIC TECHNOLOGIST             | medical ser.     |
| 380       | RADIOLOGICAL EQUIPMENT SPECIALIST   | inst. & app.     |
| 212       | RADIOTELEPHONE OPERATOR             | any industry     |
| 481       | RAILROAD CAR BUILDER                | railroad equip.  |
| 481       | RAILWAY CAR REPAIRER                | railroad equip.  |

| Group No. | Occupation                     | Industry         |
|-----------|--------------------------------|------------------|
| 460       | RAMP ATTENDANT                 | air trans.       |
| 111       | RATER                          | insurance        |
| 251       | REAL ESTATE AGENT              | profess. & kin.  |
| 321       | REAMER, HAND                   | machine shop     |
| 330       | REAMING MACHINE TENDER         | nonfer. metal    |
| 111       | RECEPTIONIST                   | clerical         |
| 212       | RECORDING ENGINEER             | radio-tv broad.  |
| 360       | RECORDING STUDIO SET-UP WORKER | recording        |
| 230       | RECORDIST                      | motion picture   |
| 214       | RECREATION AIDE                | social ser.      |
| 310       | RECREATIONAL THERAPIST         | medical ser.     |
| 111       | RECRUITER, PERSONNEL           | profess. & kin.  |
| 111       | REGISTRATION CLERK             | government ser.  |
| 212       | REHABILITATION CENTER MANAGER  | government ser.  |
| 481       | REINFORCING IRON WORKER        | construction     |
| 221       | REPAIRER                       | furniture        |
| 220       | REPAIRER, ART OBJECTS          | any industry     |
| 320       | REPAIRER, OFFICE MACHINES      | any industry     |
| 320       | REPAIRER, SALVAGED PARTS       | any industry     |
| 320       | REPAIRER, SMALL APPLIANCE      | house. appl.     |
| 320       | REPAIRER, WIND INSTRUMENT      | any industry     |
| 220       | REPAIRER/ADJUSTER              | office machines  |
| 251       | REPORTER                       | print. & pub.    |
| 110       | REPORTS ANALYST                | profess. & kin.  |
| 213       | REPOSSESSOR                    | clerical         |
| 460       | RESAW OPERATOR                 | woodworking      |
| 111       | RESEARCHER                     | profess. & kin.  |
| 111       | RESERVATION CLERK              | clerical         |
| 111       | RESERVATIONS AGENT             | air trans.       |
| 311       | RESPIRATORY THERAPIST          | medical ser.     |
| 340       | RESPIRATORY THERAPY AIDE       | medical ser.     |
| 240       | REST ROOM ATTENDANT            | any industry     |
| 380       | RESTORATION TECHNICIAN         | museums          |
| 214       | RETAIL CLERK                   | retail trade     |
| 111       | REVIEWER, FINAL APPLICATION    | insurance        |
| 330       | REWINDER OPERATOR              | paper goods      |
| 230       | RICE GRADER                    | grain-feed mills |
| 240       | RIDE OPERATOR                  | amuse. & rec.    |
| 482       | RIGGER                         | ship-boat mfg.   |
| 482       | RIGGER, HIGH                   | amuse. & rec.    |

| Group No. | Occupation                               | Industry         |
|-----------|--|------------------|
| 481       | RIGGER/SLINGER                           | any industry     |
| 330       | RIPSAW OPERATOR                          | woodworking      |
| 230       | RIVET AND BOLT MAKER                     | any industry     |
| 330       | RIVETER, HYDRAULIC                       | any industry     |
| 481       | RIVETER, PNEUMATIC                       | any industry     |
| 330       | RIVETING MACHINE OPERATOR, AUTOMATIC     | aircraft mfg.    |
| 330       | RIVETING MACHINE OPERATOR                | any industry     |
| 351       | ROAD ROLLER OPERATOR                     | construction     |
| 330       | ROBOTIC MACHINE OPERATOR                 | aircraft mfg.    |
| 470       | ROBOTICS SERVICE TECHNICIAN              | machinery mfg.   |
| 351       | ROCK DRILL OPERATOR                      | construction     |
| 560       | ROLL TENDER/SETTER                       | print. & pub.    |
| 330       | ROLLER MACHINE OPERATOR                  | metal prod., nec |
| 230       | ROLLING MILL ATTENDANT                   | steel & rel.     |
| 380       | ROOFER                                   | construction     |
| 480       | ROOFER HELPER                            | construction     |
| 322       | ROOM SERVICE CLERK                       | hotel & rest.    |
| 480       | ROTARY DRILLER                           | petrol. & gas    |
| 480       | ROTARY DRILLER HELPER                    | petrol. & gas    |
| 230       | ROUGHER, BAR MILL                        | steel & rel.     |
| 480       | ROUGHNECK                                | petrol. & gas    |
| 480       | ROUSTABOUT                               | petrol. & gas    |
| 211       | ROUTER                                   | clerical         |
| 330       | ROUTER OPERATOR                          | any industry     |
| 330       | ROUTER OPERATOR                          | woodworking      |
| 460       | RUBBER CUTTER                            | rubber goods     |
| 230       | RUBBER MILL OPERATOR                     | plastic-synth.   |
| 340       | RUG CLEANER, HAND OR MACHINE             | laundry & rel.   |
| 321       | RUG REPAIRER                             | laundry & rel.   |
| 420       | SADDLE MAKER                             | leather prod.    |
| 212       | SAFETY ENGINEER                          | profess. & kin.  |
| 212       | SAFETY MANAGER                           | profess. & kin.  |
| 380       | SAIL MAKER                               | ship-boat mfg.   |
| 322       | SALAD MAKER                              | water trans.     |
| 212       | SALES AGENT, INSURANCE                   | insurance        |
| 214       | SALES CLERK                              | retail trade     |
| 251       | SALES REP, FARM, GARDEN EQPT. & SUPPLIES | wholesale tr.    |
| 212       | SALES REP, ADVERTISING                   | print. & pub.    |
| 251       | SALES REP, COMPUTERS AND EDP SYSTEMS     | wholesale tr.    |

| Group No. | Occupation                               | Industry                         |
|-----------|--|----------------------------------|
| 212       | SALES REP, DATA PROCESSING SERVICES      | business ser.                    |
| 251       | SALES REP, DOOR-TO-DOOR                  | retail trade                     |
| 212       | SALES REP, FINANCIAL SERVICES            | financial                        |
| 251       | SALES REP, LIVESTOCK                     | wholesale tr.                    |
| 251       | SALES REP, OFFICE MACHINES               | retail trade                     |
| 251       | SALES REP, RECREATION, SPORTING GOODS    | wholesale tr.                    |
| 251       | SALES REP, SECURITY SYSTEMS              | business ser.                    |
| 212       | SALES REP, UPHOLSTERY, FURNITURE REPAIR  | retail trade                     |
| 251       | SALES REP, WOMEN'S AND GIRLS' APPAREL    | wholesale tr.                    |
| 251       | SALESPERSON, AUTOMOBILES                 | retail trade                     |
| 214       | SALESPERSON, GENERAL MERCHANDISE         | retail trade                     |
| 214       | SALESPERSON, PARTS                       | retail trade                     |
| 214       | SALESPERSON, SHOES                       | retail trade                     |
| 430       | SALVAGE CUTTER                           | welding                          |
| 480       | SANDBLASTER                              | any industry                     |
| 330       | SANDER, MACHINE                          | woodworking                      |
| 322       | SANDWICH MAKER                           | hotel & rest.                    |
| 331       | SAUSAGE MAKER                            | meat products                    |
| 331       | SAUSAGE STUFFER                          | meat products                    |
| 321       | SAW BLADE FILER                          | any industry                     |
| 360       | SAWMILL WORKER                           | saw. & plan.                     |
| 330       | SAWYER                                   | plastic prod.;<br>plastic-synth. |
| 230       | SAWYER, CIRCULAR HEAD                    | saw. & plan.                     |
| 230       | SAWYER, CORK SLABS                       | wood prod., nec                  |
| 330       | SAWYER, TRIMMER                          | saw. & plan.                     |
| 111       | SCHEDULER                                | clerical                         |
| 212       | SCHOOL PRINCIPAL                         | education                        |
| 111       | SCOREBOARD OPERATOR                      | amuse. & rec.                    |
| 251       | SCOUT, PROFESSIONAL SPORTS               | amuse. & rec.                    |
| 460       | SCRAP HANDLER                            | any industry                     |
| 320       | SCREEN MAKER, PHOTOGRAPHIC PROCESS       | any industry                     |
| 221       | SCREEN MAKER, WALLPAPER                  | paper goods                      |
| 330       | SCREW MACHINE OPERATOR, MULTIPLE SPINDLE | machine shop                     |
| 330       | SCROLL MACHINE OPERATOR                  | struct. metal                    |

| Group No. | Occupation                              | Industry        |
|-----------|---|-----------------|
| 321       | SCULPTOR                                | stonework       |
| 112       | SECRETARY                               | clerical        |
| 112       | SECRETARY, LEGAL                        | clerical        |
| 112       | SECRETARY, MEDICAL                      | medical ser.    |
| 112       | SECRETARY, SOCIAL                       | clerical        |
| 212       | SECURITY GUARD, GATE                    | any industry    |
| 213       | SECURITY GUARD, PLANT                   | any industry    |
| 390       | SECURITY OFFICER                        | any industry    |
| 230       | SEED PELLETTER                          | agriculture     |
| 212       | SEISMOLOGIST                            | profess. & kin. |
| 330       | SEMICONDUCTOR PROCESSOR                 | electron. comp. |
| 380       | SEPTIC TANK INSTALLER                   | construction    |
| 480       | SEPTIC TANK SERVICER                    | construction    |
| 214       | SERVICE MANAGER                         | automotive ser. |
| 213       | SERVICE REPRESENTATIVE                  | utilities       |
| 340       | SERVICE STATION ATTENDANT               | automotive ser. |
| 213       | SET DESIGNER                            | motion picture  |
| 320       | SETTER, AUTOMATIC SPINNING LATHE        | any industry    |
| 360       | SET-UP PERSON, TRADE SHOW               | retail trade    |
| 480       | SEWAGE DISPOSAL WORKER                  | sanitary ser.   |
| 221       | SEWER, HAND                             | any industry    |
| 480       | SEWER LINE REPAIRER                     | sanitary ser.   |
| 341       | SEWER PIPE CLEANER                      | business ser.   |
| 230       | SEWING MACHINE OPERATOR                 | tex. prod., nec |
| 370       | SEWING MACHINE REPAIRER                 | any industry    |
| 330       | SHAPER OPERATOR                         | woodworking     |
| 330       | SHAPING MACHINE OPERATOR                | machine shop    |
| 430       | SHEAR OPERATOR                          | any industry    |
| 370       | SHEETMETAL MECHANIC                     | any industry    |
| 320       | SHEETMETAL FABRICATING MACHINE OPERATOR | any industry    |
| 491       | SHELLFISH GROWER                        | fishing & hunt. |
| 490       | SHERIFF, DEPUTY                         | government ser. |
| 481       | SHIPFITTER                              | ship-boat mfg.  |
| 480       | SHIPFITTER HELPER                       | ship-boat mfg.  |
| 360       | SHIPPING AND RECEIVING CLERK            | clerical        |
| 214       | SHIPPING CHECKER                        | clerical        |
| 380       | SHIPWRIGHT                              | ship-boat mfg.  |
| 221       | SHOE REPAIRER                           | personal ser.   |
| 214       | SHOP ESTIMATOR                          | automotive ser. |
| 210       | SHOW HOST/HOSTESS                       | radio-tv broad. |



| Group No. | Occupation                          | Industry         |
|-----------|-------------------------------------|------------------|
| 250       | SHUTTLE BUS DRIVER                  | any industry     |
| 380       | SIDER                               | construction     |
| 341       | SIGN POSTER                         | any industry     |
| 120       | SIGN WRITER, HAND                   | any industry     |
| 221       | SILK SCREEN ETCHER                  | engraving        |
| 221       | SILK SCREEN PRINTER                 | any industry     |
| 221       | SILK SCREEN FRAME ASSEMBLER         | any industry     |
| 220       | SILVERSMITH                         | jewelry-silver.  |
| 210       | SINGER                              | amuse. & rec.    |
| 493       | SKI INSTRUCTOR                      | amuse. & rec.    |
| 240       | SKI LIFT OPERATOR                   | amuse. & rec.    |
| 590       | SKI PATROLLER                       | amuse. & rec.    |
| 221       | SKI REPAIRER, PRODUCTION            | toy-sport equip. |
| 420       | SKINNER                             | meat products    |
| 480       | SKIP TENDER                         | mine & quarry    |
| 111       | SKIP TRACER                         | clerical         |
| 460       | SLASHER TENDER                      | textile          |
| 230       | SLICING MACHINE OPERATOR            | bakery products  |
| 460       | SLITTING MACHINE OPERATOR<br>HELPER | any industry     |
| 331       | SLURRY BLENDER                      | cement           |
| 370       | SMOG TECHNICIAN                     | automotive ser.  |
| 590       | SMOKE JUMPER                        | forestry         |
| 351       | SNOWPLOW OPERATOR                   | government ser.  |
| 230       | SOAP MAKER                          | soap & rel.      |
| 111       | SOCIAL WORKER                       | social ser.      |
| 111       | SOFTWARE ENGINEER                   | profess. & kin.  |
| 213       | SOIL CONSERVATIONIST                | profess. & kin.  |
| 481       | SOLAR ENERGY SYSTEM INSTALLER       | any industry     |
| 470       | SOLAR FABRICATION TECHNICIAN        | machine shop     |
| 120       | SOLDERER                            | jewelry-silver.  |
| 111       | SORTER                              | clerical         |
| 221       | SORTER, AGRICULTURAL PRODUCE        | agriculture      |
| 221       | SORTER, REMNANT                     | textile          |
| 214       | SORTER-PRICER                       | nonprofit org.   |
| 212       | SOUND MIXER                         | motion picture   |
| 212       | SOUND EFFECTS TECHNICIAN            | radio-tv broad.  |
| 322       | SOUS CHEF                           | hotel & rest.    |
| 490       | SPECIAL AGENT                       | government ser.  |
| 390       | SPECIAL POLICEMAN                   | any industry     |
| 212       | SPEECH PATHOLOGIST                  | profess. & kin.  |
| 331       | SPINNER                             | sugar & conf.    |

| Group No. | Occupation                         | Industry        |
|-----------|------------------------------------|-----------------|
| 430       | SPINNER, HYDRAULIC                 | any industry    |
| 330       | SPINNING LATHE OPERATOR            | any industry    |
| 221       | SPORTS EQUIPMENT REPAIRER          | any industry    |
| 221       | SPOT CLEANER                       | laundry & rel.  |
| 111       | SPOTTER, PHOTOGRAPHIC              | photofinishing  |
| 330       | SPRAY PAINTING MACHINE<br>OPERATOR | any industry    |
| 460       | SPREADER MACHINE, CLOTH            | textile         |
| 491       | STABLE ATTENDANT                   | any industry    |
| 230       | STAMPING PRESS OPERATOR            | any industry    |
| 390       | STAND-IN                           | motion picture  |
| 330       | STAPLING MACHINE OPERATOR          | any industry    |
| 380       | STATION INSTALLER AND REPAIRER     | tel. & tel.     |
| 332       | STATIONARY ENGINEER                | any industry    |
| 111       | STATISTICIAN, APPLIED              | profess. & kin. |
| 340       | STEAM CLEANER                      | automotive ser. |
| 482       | STEEL ERECTOR                      | construction    |
| 380       | STEEL PLATE CAULKER                | any industry    |
| 482       | STEEPLE JACK                       | construction    |
| 112       | STENOCAPTIONER                     | radio-tv broad. |
| 112       | STENOGRAPHER                       | clerical        |
| 112       | STENOTYPE OPERATOR                 | clerical        |
| 330       | STEREOTYPE CASTER & MOLDER         | print. & pub.   |
| 230       | STERILIZER                         | medical ser.    |
| 351       | STEVEDORE                          | water trans.    |
| 230       | STILL TENDER                       | any industry    |
| 230       | STITCHER, STANDARD MACHINE         | boot & shoe     |
| 230       | STITCHER, WIRE, SADDLE AND SIDE    | print. & pub.   |
| 214       | STOCK CLERK                        | clerical        |
| 360       | STOCK CLERK                        | clerical        |
| 360       | STOCK CLERK                        | retail trade    |
| 214       | STOCK CLERK, AUTOMOTIVE EQPT.      | clerical        |
| 321       | STONE CARVER                       | stonework       |
| 480       | STONE DRILLER                      | stonework       |
| 220       | STONE SETTER                       | jewelry-silver. |
| 480       | STONE SPLITTER OPERATOR            | stonework       |
| 321       | STONECUTTER, HAND                  | stonework       |
| 330       | STONECUTTER, MACHINE               | stonework       |
| 380       | STONEMASON                         | construction    |
| 120       | STONER                             | jewelry-silver. |
| 470       | STOVE REFINISHER                   | any industry    |
| 321       | STRAIGHTENER, HAND                 | any industry    |

| Group No. | Occupation                                 | Industry               | Group No. | Occupation                                       | Industry        |
|-----------|--|------------------------|-----------|--|-----------------|
| 330       | STRAIGHTENING PRESS OPERATOR               | any industry           | 230       | TACKING MACHINE OPERATOR                         | any industry    |
| 330       | STRANDING MACHINE OPERATOR                 | elec. equip.           | 221       | TAILOR, ALTERATION                               | garment         |
| 460       | STRAPPING MACHINE OPERATOR                 | wood. container        | 221       | TAILOR, CUSTOM                                   | garment         |
| 340       | STREET CLEANER/SWEEPER,<br>MANUAL          | government ser.        | 460       | TANK CLEANER                                     | any industry    |
| 380       | STREET LIGHT SERVICER                      | utilities              | 380       | TAPER  | construction    |
| 351       | STREET SWEEPER OPERATOR                    | government ser.        | 120       | TAPER, PRINTED CIRCUIT LAYOUT                    | electron. comp. |
| 111       | STRESS ANALYST                             | aircraft mfg.          | 330       | TAPPING MACHINE TENDER                           | nut & bolt      |
| 212       | STRESS TEST TECHNICIAN                     | medical ser.           | 111       | TAX CLERK  | clerical        |
| 230       | STRETCHING MACHINE TENDER,<br>FRAME        | leather mfg.           | 111       | TAX PREPARER                                     | business ser.   |
| 221       | STRIPER & LETTERER, HAND,<br>MOTORCYCLES   | any industry           | 250       | TAXI DRIVER                                      | motor trans.    |
| 331       | STRIPPER-ETCHER, PRINTED<br>CIRCUIT BOARDS | electron. comp.        | 311       | TAXIDERMIST                                      | profess. & kin. |
| 482       | STRUCTURAL STEEL WORKER                    | construction           | 214       | TEACHER AIDE                                     | education       |
| 482       | STRUCTURAL STEEL WORKER<br>HELPER          | construction           | 212       | TEACHER, ADULT EDUCATION                         | education       |
| 380       | STUCCO MASON                               | construction           | 214       | TEACHER, ELEMENTARY SCHOOL                       | education       |
| 590       | STUNT PERFORMER                            | amuse. & rec.          | 214       | TEACHER, INDUSTRIAL ARTS                         | education       |
| 320       | SUBASSEMBLER                               | machinery mfg.         | 214       | TEACHER, LEARNING DISABLED                       | education       |
| 332       | SUBSTATION OPERATOR                        | utilities              | 214       | TEACHER, MUSIC                                   | education       |
| 250       | SUBWAY CAR OPERATOR                        | r.r. trans.            | 390       | TEACHER, PHYSICAL EDUCATION                      | education       |
| 332       | SUPERCALENDER OPERATOR                     | paper & pulp           | 214       | TEACHER, PHYSICALLY IMPAIRED                     | education       |
| 212       | SUPERINTENDENT, BUILDING                   | any industry           | 214       | TEACHER,<br>PRESCHOOL/KINDERGARTEN               | education       |
| 213       | SUPERINTENDENT, CONSTRUCTION               | construction           | 212       | TEACHER, SECONDARY SCHOOL                        | education       |
| 212       | SUPERINTENDENT, PLANT<br>PROTECTION        | any industry           | 214       | TEACHER, VOCATIONAL TRAINING                     | education       |
| 360       | SUPPLY CLERK                               | clerical               | 120       | TECHNICAL ILLUSTRATOR                            | profess. & kin. |
| 220       | SURGEON                                    | medical ser.           | 112       | TELEGRAPH OPERATOR                               | clerical        |
| 230       | SURGICAL DRESSING MAKER,<br>MACHINE        | protective dev.        | 112       | TELEPHONE OPERATOR                               | clerical        |
| 212       | SURGICAL TECHNICIAN                        | medical ser.           | 112       | TELEPHONE ANSWERING SERVICE<br>OPERATOR          | business ser.   |
| 213       | SURVEYOR                                   | surveying/cartographic | 350       | TELEPHONE DIRECTORY DELIVERER                    | business ser.   |
| 360       | SURVEYOR HELPER                            | any industry           | 111       | TELEVISION CONSOLE MONITOR                       | radio-tv broad. |
| 340       | SWIMMING POOL SERVICER                     | any industry           | 380       | TELEVISION RECEIVER/ANTENNA<br>INSTALLER         | any industry    |
| 111       | SWITCHBOARD OPERATOR, POLICE<br>DISTRICT   | government ser.        | 470       | TELEVISION TECHNICIAN                            | radio-tv broad. |
| 331       | SYRUP MAKER                                | beverage               | 320       | TELEVISION AND RADIO REPAIRER                    | any industry    |
| 111       | SYSTEMS ANALYST                            | profess. & kin.        | 211       | TELLER   | financial       |
| 111       | SYSTEMS PROGRAMMER                         | profess. & kin.        | 214       | TELLER, VAULT                                    | financial       |
|           |  |                        | 320       | TEMPLATE MAKER                                   | any industry    |
|           |  |                        | 380       | TERRAZZO INSTALLER                               | construction    |
|           |  |                        | 480       | TERRAZZO INSTALLER HELPER                        | construction    |
|           |  |                        | 220       | TEST TECH, SEMICONDUCTOR<br>PROCESSING EQUIPMENT | electron. comp. |
|           |  |                        | 320       | TESTER, NONDESTRUCTIVE                           | profess. & kin. |

| Group No. | Occupation                         | Industry            |
|-----------|------------------------------------|---------------------|
| 212       | TESTING MACHINE OPERATOR, METAL    | profess. & kin.     |
| 370       | THERMAL CUTTER, HAND               | welding             |
| 330       | THERMAL CUTTING-MACHINE OPERATOR   | welding             |
| 320       | THERMOSTAT REPAIRER                | inst. & app.        |
| 221       | THREAD CUTTER, HAND OR MACHINE     | any industry        |
| 330       | THREADING MACHINE OPERATOR         | machine shop        |
| 321       | THROWER                            | pottery & porc.     |
| 212       | TICKET AGENT                       | any industry        |
| 213       | TICKET INSPECTOR, TRANSPORTATION   | r.r. transportation |
| 230       | TICKET PRINTER                     | any industry        |
| 240       | TICKET TAKER                       | amuse. & rec.       |
| 330       | TILE MAKER                         | brick & tile        |
| 380       | TILE SETTER                        | construction        |
| 480       | TILE SETTER HELPER                 | construction        |
| 330       | TIMBER-SIZER OPERATOR              | saw. & plan.        |
| 212       | TIME AND MOTION STUDY ANALYST      | profess. & kin.     |
| 321       | TIRE BUILDER, AUTOMOBILE           | rubber tire         |
| 460       | TIRE CHANGER                       | automotive ser.     |
| 460       | TIRE MOLDER                        | rubber tire         |
| 321       | TIRE RECAPPER                      | automotive ser.     |
| 460       | TIRE REPAIRER                      | automotive ser.     |
| 420       | TIRE TRIMMER, HAND                 | rubber tire         |
| 211       | TITLE SEARCHER                     | real estate         |
| 211       | TOLL COLLECTOR                     | government ser.     |
| 220       | TOOL DESIGNER                      | profess. & kin.     |
| 330       | TOOL DRESSER                       | any industry        |
| 320       | TOOL MAKER                         | machine shop        |
| 320       | TOOL MAKER, BENCH                  | machine shop        |
| 120       | TOOL PROGRAMMER, NUMERICAL CONTROL | electron. comp.     |
| 360       | TOOL AND EQUIPMENT RENTAL CLERK    | business ser.       |
| 360       | TOOL CRIB ATTENDANT                | clerical            |
| 430       | TORCH STRAIGHTENER AND HEATER      | any industry        |
| 221       | TOUCH-UP PAINTER, HAND             | any industry        |
| 482       | TOWER ERECTOR                      | construction        |

| Group No. | Occupation                    | Industry         |
|-----------|-------------------------------|------------------|
| 212       | TOXICOLOGIST                  | pharmaceut.      |
| 221       | TOY ASSEMBLER                 | toy-sport equip. |
| 351       | TRACTOR OPERATOR              | any industry     |
| 351       | TRACTOR CRANE OPERATOR        | any industry     |
| 111       | TRAFFIC CLERK                 | business ser.    |
| 212       | TRAFFIC ENGINEER              | government ser.  |
| 490       | TRAFFIC OFFICER               | government ser.  |
| 111       | TRAIN DISPATCHER              | r.r. trans.      |
| 112       | TRANSCRIBING MACHINE OPERATOR | clerical         |
| 370       | TRANSFORMER ASSEMBLER         | elec. equip.     |
| 111       | TRANSLATOR, DOCUMENTS         | profess. & kin.  |
| 492       | TREE CUTTER                   | agriculture      |
| 491       | TREE PRUNER, LOW LEVEL/BUCKET | agriculture      |
| 482       | TREE SURGEON                  | agriculture      |
| 482       | TREE TRIMMER                  | tel. & tel.      |
| 230       | TRIMMER, MACHINE              | garment          |
| 322       | TRIMMER, MEAT                 | meat products    |
| 221       | TROPHY ASSEMBLER              | jewelry-silver.  |
| 350       | TRUCK DRIVER                  | any industry     |
| 350       | TRUCK DRIVER, CONCRETE MIXING | construction     |
| 350       | TRUCK DRIVER, DUMP TRUCK      | any industry     |
| 350       | TRUCK DRIVER, GARBAGE         | motor trans.     |
| 350       | TRUCK DRIVER, LOGS            | logging          |
| 351       | TRUCK DRIVER, ROAD OILING     | construction     |
| 350       | TRUCK DRIVER, SALES ROUTE     | retail trade     |
| 350       | TRUCK DRIVER, TANK TRUCK      | petrol. refin.   |
| 350       | TRUCK DRIVER, TOW TRUCK       | automotive ser.  |
| 350       | TRUCK DRIVER, TRACTOR-TRAILER | any industry     |
| 460       | TRUCK LOADER                  | any industry     |
| 460       | TRUCK DRIVER HELPER           | any industry     |
| 380       | TRUSS BUILDER, CONSTRUCTION   | construction     |
| 320       | TUBE ASSEMBLER, CATHODE RAY   | electron. comp.  |
| 221       | TUBE BENDER, HAND             | any industry     |
| 341       | TUBE CLEANER                  | any industry     |
| 330       | TUBULAR FURNITURE MAKER       | any industry     |
| 111       | TUMOR REGISTRAR               | medical ser.     |
| 332       | TURBINE ATTENDANT             | utilities        |
| 332       | TURBINE OPERATOR              | utilities        |
| 330       | TURRET LATHE OPERATOR         | machine shop     |
| 212       | TUTOR                         | education        |
| 221       | TYPESETTER/COMPOSITOR         | print. & pub.    |

| Group No. | Occupation                               | Industry         |
|-----------|--|------------------|
| 230       | TYPESETTING MACHINE TENDER               | print. & pub.    |
| 112       | TYPIST                                   | clerical         |
| 212       | ULTRASOUND TECHNOLOGIST                  | medical ser.     |
| 214       | UMPIRE                                   | amuse. & rec.    |
| 110       | UNDERWRITER, MORTGAGE LOAN               | financial        |
| 321       | UPHOLSTERY REPAIRER                      | furniture        |
| 110       | URBAN PLANNER                            | profess. & kin.  |
| 370       | USED CAR RENOVATOR                       | retail trade     |
| 240       | USHER                                    | amuse. & rec.    |
| 330       | UTILITY OPERATOR                         | saw. & plan.     |
| 320       | VACUUM CLEANER REPAIRER                  | any industry     |
| 351       | VACUUM CLEANER OPERATOR,<br>INDUSTRIAL   | any industry     |
| 250       | VALET, PARKING                           | automotive serv. |
| 330       | VARIETY SAW OPERATOR                     | woodworking      |
| 112       | VARITYPE OPERATOR                        | clerical         |
| 214       | VAULT CASHIER                            | business ser.    |
| 213       | VENDOR                                   | amuse. & rec.    |
| 340       | VENETIAN BLIND CLEANER AND<br>REPAIRER   | any industry     |
| 311       | VETERINARIAN                             | medical ser.     |
| 311       | VETERINARIAN, LABORATORY<br>ANIMAL CARE  | medical ser.     |
| 311       | VETERINARY TECHNICIAN                    | medical ser.     |
| 212       | VIDEOTAPE OPERATOR, STUDIO               | radio-tv broad.  |
| 110       | VOCATIONAL REHABILITATION<br>CONSULTANT  | government ser.  |
| 212       | VOICE PATHOLOGIST                        | profess. & kin.  |
| 221       | WAFER FAB OPERATOR                       | electron. comp.  |
| 322       | WAITER/WAITRESS                          | hotel & rest.    |
| 480       | WALLPAPER REMOVER, STEAM                 | construction     |
| 360       | WAREHOUSE WORKER                         | any industry     |
| 331       | WASHER, MACHINE                          | any industry     |
| 340       | WASHER, MACHINE                          | laundry & rel.   |
| 460       | WASHING MACHINE LOADER AND<br>PULLER     | laundry & rel.   |
| 460       | WASTE DISPOSAL ATTENDANT,<br>RADIOACTIVE | any industry     |
| 332       | WASTE TREATMENT OPERATOR                 | chemical         |
| 332       | WASTEWATER TREATMENT PLANT<br>OPERATOR   | sanitary ser.    |
| 220       | WATCH REPAIRER                           | clock & watch    |

| Group No. | Occupation                                  | Industry                   |
|-----------|---|----------------------------|
| 380       | WATER METER INSTALLER                       | waterworks                 |
| 332       | WATER PUMP TENDER                           | any industry               |
| 460       | WATER SOFTENER SERVICER AND<br>INSTALLER    | business ser.              |
| 332       | WATER TREATMENT PLANT<br>OPERATOR           | waterworks                 |
| 481       | WAYSMAN                                     | ship-boat mfg.             |
| 230       | WEAVER, TEXTILE                             | nonmet. min.               |
| 330       | WEB PRESS OPERATOR HELPER,<br>OFFSET        | print. & pub.              |
| 330       | WEB PRESS OPERATOR                          | print. & pub.              |
| 360       | WEIGHER, PRODUCTION                         | any industry               |
| 214       | WEIGHER, SHIPPING AND<br>RECEIVING          | clerical                   |
| 240       | WEIGHT REDUCTION SPECIALIST                 | personal services          |
| 460       | WELDER HELPER                               | welding                    |
| 430       | WELDER, ARC                                 | welding                    |
| 370       | WELDER, COMBINATION                         | welding                    |
| 370       | WELDER, GAS                                 | welding                    |
| 370       | WELDER, GUN                                 | welding                    |
| 370       | WELDER, PRODUCTION LINE                     | welding                    |
| 430       | WELDER, TACK                                | welding                    |
| 380       | WELDER-FITTER                               | welding                    |
| 330       | WELDING MACHINE OPERATOR,<br>ARC            | welding                    |
| 480       | WELL DIGGER                                 | construction               |
| 480       | WELL PULLER                                 | petrol. & gas              |
| 480       | WELL DRILL OPERATOR                         | construction               |
| 480       | WELL DRILL OPERATOR HELPER                  | construction               |
| 320       | WHEEL LACER AND TRUER                       | motor-bicycles             |
| 482       | WIND GENERATING ELECTRIC<br>POWER INSTALLER | construction               |
| 482       | WIND TURBINE TECHNICIAN                     | construction;<br>utilities |
| 330       | WINDER                                      | paper goods                |
| 460       | WINDER OPERATOR, FLOOR<br>COVERINGS         | fabrication                |
| 230       | WINDER, MAGNETIC TAPE                       | recording                  |
| 330       | WINDER, YARN                                | tex. prod., nec            |
| 330       | WINDING-MACHINE OPERATOR,<br>CLOTH          | textile                    |
| 341       | WINDOW CLEANER                              | any industry               |

| Group No. | Occupation                            | Industry        | Group No. | Occupation | Industry |
|-----------|---------------------------------------|-----------------|-----------|------------|----------|
| 380       | WINDOW REPAIRER                       | any industry    |           |            |          |
| 213       | WINE MAKER                            | beverage        |           |            |          |
| 240       | WINE STEWARD/STEWARDESS               | hotel & rest.   |           |            |          |
| 332       | WINERY WORKER                         | beverage        |           |            |          |
| 221       | WIRE HARNESS ASSEMBLER                | elec. equip.    |           |            |          |
| 330       | WIRE DRAWING MACHINE TENDER           | nonfer. metal   |           |            |          |
| 230       | WIRE WRAPPING MACHINE OPERATOR        | electron. comp. |           |            |          |
| 330       | WOOD-CARVING MACHINE OPERATOR         | woodworking     |           |            |          |
| 321       | WOOL AND PELT GRADER                  | meat products   |           |            |          |
| 112       | WORD PROCESSING MACHINE OPERATOR      | clerical        |           |            |          |
| 330       | WRAPPING MACHINE OPERATOR             | any industry    |           |            |          |
| 480       | WRECKER, CONSTRUCTION                 | construction    |           |            |          |
| 112       | WRITER, PROSE, FICTION AND NONFICTION | profess. & kin. |           |            |          |
| 112       | WRITER, TECHNICAL PUBLICATIONS        | profess. & kin. |           |            |          |
| 212       | XRAY OPERATOR, INDUSTRIAL             | any industry    |           |            |          |
| 310       | XRAY TECHNOLOGIST                     | medical ser.    |           |            |          |
| 460       | YARD ATTENDANT, BUILDING MATERIALS    | retail trade    |           |            |          |
| 351       | YARDER OPERATOR, FIXED/PORTABLE       | logging         |           |            |          |

## PART B - OCCUPATIONAL GROUP CHART

| OCCUPATION DESIGNATOR |   | STRENGTH DESIGNATOR                                      |   |  |   |   |
|-----------------------|---|--|---|--|---|---|
|                       |   | 1<br>Very Light  | 2<br>Light  | 3<br>Medium  | 4<br>Heavy  | 5<br>Very Heavy                                     |
| 1                     | Professional,<br>Technical, Clerical              | 110, 111, 112<br>Case worker<br>Auditor<br>Editor        | 210, 211, 212, 213, 214<br>Adm. clerk<br>Bank clerk<br>Clerk, general | 310, 311<br>Physical therapist<br>Chiropractor<br>Psych. tech.           |   |   |
| 2                     | Hand Intensive                                    | 120<br>Drafter, civil<br>Cartoonist<br>Assemb/semi-cond. | 220, 221<br>Dentist<br>Microelect. tech.<br>Surgeon                   | 320, 321, 322<br>Die maker<br>Meter repair<br>Precision assem.           | 420<br>Butcher<br>Saddle maker<br>Hide puller               |   |
| 3                     | Machine Operators,<br>Tenders                     |  | 230<br>Coil winder<br>Cutter, machine<br>Palletizer oper.             | 330, 331, 332<br>Bend. mach. Oper.<br>Cut-off sawyer<br>Laminating mach. | 430<br>Boiler maker<br>Metal fabricator<br>Welder-arc       |   |
| 4                     | Cleaners,<br>Attendants                           |  | 240<br>Child monitor<br>Restroom attend.<br>Ticket taker              | 340, 341<br>Auto washer<br>Janitor<br>Nurse's aide                       |   |   |
| 5                     | Drivers   |  | 250, 251<br>Coin-mach. collector<br>Bus driver                        | 350, 351<br>Truckdriver/<br>Tractor-trailer<br>Truckdriver/<br>dump      |   |   |
| 6                     | Laborers, Material<br>Handlers                    |  |   | 360<br>Warehouse worker<br>Crate maker<br>Material expediter             | 460<br>Baker's helper<br>Material stacker<br>Ramp attendant | 560<br>Ambul. Attendant<br>Furniture mover<br>Miner |
| 7                     | Mechanics,<br>Installers, Repairers,<br>Servicers |  |   | 370<br>Mechanic-tractor<br>Precision assem.<br>Welder, gas               | 470<br>Mechanic-diesel<br>Furn. assem/heavy<br>TV tech.     |   |

| <b>OCCUPATION DESIGNATOR</b> |                      | <b>1<br/>Very Light</b> | <b>2<br/>Light</b>                           | <b>3<br/>Medium</b>                                   | <b>4<br/>Heavy</b>   | <b>5<br/>Very Heavy</b>            |
|------------------------------|----------------------|-------------------------|--|---|--|------------------------------------|
| <b>8</b>                     | Construction Workers |                         |  | 380<br>Electrician<br>Carpenter-Const<br>Handy person | 480, 481, 482<br>Bricklayer<br>Carpenter/<br>Rough<br>Millwright |                                    |
| <b>9</b>                     | Miscellaneous        |                         | 290<br>Beautician<br>Barber<br>Cosmetologist | 390<br>Security officer<br>Counselor, camp            | 490, 491, 492, 493<br>Farm laborer<br>Gardener<br>Log sorter     | 590<br>Athlete<br>Jockey<br>Dancer |

## PART C – OCCUPATIONAL GROUP CHARACTERISTICS

|  |  |                  |   |  |                            |
|--|--|------------------|---|--|----------------------------|
| <b>Group 110</b>   |  |                  | Typical occupations: Billing Clerk,<br>Computer Keyboard Operator,<br>Secretary   | Grip<br>Leg<br>Psych   | E<br>C<br>I                |
| Professional Occupations   | Spine<br>Shoulder<br>Elbow             | C<br>C<br>D      |   |  |                            |
| Some use of keyboards but less than<br>112 or 112; greater standing and<br>walking demands than 112 and 120. | Wrist<br>Finger motion.<br>Grip<br>Leg | D<br>F<br>D<br>D | <b>Group 120</b>  |  |                            |
| Typical occupations: Lawyer, Loan<br>Officer, Urban Planner  | Psych                                  | J                | Most Technical Occupations  | Spine<br>Shoulder<br>Elbow<br>Wrist<br>Finger motion<br>Grip | D<br>E<br>G<br>H<br>H<br>F |
|  |  |                  | Precision work requiring skill and<br>dexterity; use of hand tools; more<br>sitting than 110 and 111.   | Leg<br>Psych   | C<br>I                     |
|  |  |                  | Typical occupations: Electrical<br>drafter, Illustrator, Jeweler  |  |                            |
| <b>Group 111</b>   |  |                  | <b>Group 210</b>  |  |                            |
| Professional and Clerical Occupations  | Spine<br>Shoulder<br>Elbow             | C<br>D<br>F      | Mostly Professional Occupations   | Spine<br>Shoulder<br>Elbow<br>Wrist<br>Finger motion<br>Grip | D<br>C<br>D<br>D<br>E<br>C |
| Substantial use of keyboards; greater<br>demands for standing and walking<br>than 112 and 120.               | Wrist<br>Finger motion<br>Grip<br>Leg  | G<br>G<br>E<br>D | Extensive speech and hearing;<br>standing and sitting; may require<br>driving to business locations; other<br>physical demands at the lower end of<br>the light category. | Psych  | I                          |
| Typical occupations: Accountant,<br>Claims Clerk, Reservations Agent   | Psych                                  | I                | Typical occupations: Actor,<br>Announcer. Clergy member   |  |                            |
| <b>Group 112</b>   |  |                  |   |  |                            |
| Mostly Clerical Occupations  | Spine<br>Shoulder                      | D<br>D           |   |  |                            |
| Highest demand for use of keyboard;<br>prolonged sitting.  | Elbow<br>Wrist<br>Finger motion        | G<br>H<br>I      |   |  |                            |



**Group 211**

|  |               |   |
|--|---------------|---|
| Mostly Clerical Occupations  | Spine         | D |
|  | Shoulder      | D |
| Emphasis on frequent fingering, handling, and possibly some keyboard work; spine and leg demands similar to 210. | Elbow         | F |
|  | Wrist         | G |
|  | Finger motion | G |
|  | Grip          | E |
|  | Leg           | E |
| Typical occupations: Bank clerk, Inventory clerk, License clerk  | Psych         | H |

**Group 212**

|  |               |   |
|--|---------------|---|
| Mostly Professional and Medical Occupations  | Spine         | E |
|  | Shoulder      | E |
|  | Elbow         | E |
| Work predominantly performed indoors, but may require driving to locations of business; less use of hands than 211; slightly higher demands on spine than 210 & 211. | Wrist         | F |
|  | Finger motion | F |
|  | Grip          | E |
|  | Leg           | E |
| Typical occupations: Chemist, Dialysis Technician, Secondary School Teacher  | Psych         | J |

**Group 213**

|  |               |   |
|--|---------------|---|
| Mostly Professional Occupations  | Spine         | F |
|  | Shoulder      | E |
| Work performed indoors and outdoors; occasional climbing and uneven ground required, therefore spine and legs have slightly higher variants for this strength level. | Elbow         | E |
|  | Wrist         | E |
|  | Finger motion | F |
|  | Grip          | E |
|  | Leg           | F |
|  | Psych         | I |

Typical occupations: Airplane Inspector, Meter Reader, Property Manager

**Group 214**

|   |               |   |
|---|---------------|---|
| Clerical (physically active) Occupations; Educators, & Retail Sales Occupations   | Spine         | F |
|   | Shoulder      | F |
|   | Elbow         | F |
|   | Wrist         | G |
| Very high demand for speech, hearing and vision; high demand for fingering and handling; spine and leg demands at highest level for 200 series. | Finger motion | G |
|   | Grip          | F |
|   | Leg           | F |
|   | Psych         | I |

Typical occupations: Auto Shop Estimator, Elementary School Teacher, Retail Sales Clerk

**Group 220**

|  |               |   |
|--|---------------|---|
| Fine precision Occupations in medical, electronic and optical industries   | Spine         | E |
|  | Shoulder      | F |
|  | Elbow         | G |
|  | Wrist         | H |
| Very high demands for vision; high demands for hand activity – use of hand tools; highest variants in this strength category for fingering and arm Disabilities. | Finger motion | H |
|  | Grip          | F |
|  | Leg           | E |
|  | Psych         | J |

Typical occupations: Dental Hygienist, Instrument Maker & Repairer, Surgeon

**Group 221**

|   |               |   |
|---|---------------|---|
| Light Assembly Occupations, Food Preparation Occupations  | Spine         | E |
|   | Shoulder      | F |
|   | Elbow         | G |
| Vision important; repetitive fingering and use of hand tools; similar to 220 for all parts of body except for wrist and finger motion which is one variant lower. | Wrist         | G |
|   | Finger motion | G |
|   | Grip          | F |
|   | Leg           | E |
|   | Psych         | F |

Typical occupations: Assembler, small products Inspector, electronics Produce Sorter

**Group 230**

|  |               |   |
|--|---------------|---|
| Machine Operator and Tenders   | Spine         | E |
|  | Shoulder      | F |
| Average demands for this strength level on spine and legs; hand activities are most significant. | Elbow         | F |
|  | Wrist         | F |
|  | Finger motion | G |
|  | Grip          | G |
|  | Leg           | E |
| Typical occupations: Bottle Packer, Circular Saw Operator' Offset Press Operator                 | Psych         | F |

**Group 240**

|   |               |   |
|---|---------------|---|
| Mostly Attendants (providing services)  | Spine         | E |
|   | Shoulder      | D |
|   | Elbow         | E |
| Minimal hand activities; low on arm activities; average for 200 series on spine and legs. | Wrist         | E |
|   | Finger motion | E |
|   | Grip          | D |
|   | Leg           | E |
| Typical occupations: Host/Hostess,  | Psych         | G |

Parking Lot Attendant, booth, Weight Reduction Specialist

**Group 250**

|  |               |   |
|--|---------------|---|
| Public Transportation Drivers & Light Delivery Drivers   | Spine         | F |
|  | Shoulder      | F |
|  | Elbow         | G |
| Operates light automotive equipment over public thoroughfares; vision, hearing and other head disabilities important; highest variants for spine and leg activities in 200 series (along with 213 & 214); grip demands similar to 251. | Wrist         | F |
|  | Finger motion | F |
|  | Grip          | F |
|  | Leg           | F |
|  | Psych         | H |

Typical occupations: Parking Enforcement Officer, Subway Car Operator, Taxi Driver

**Group 251**

|   |               |   |
|---|---------------|---|
| Outside Sales, Inspectors, & Business Agents (performing extensive driving to reach business locations)   | Spine         | E |
|   | Shoulder      | D |
|   | Elbow         | F |
|   | Wrist         | E |
| Work requires extensive driving of light automotive equipment over public thoroughfares to reach business locations; vision, hearing and other head disabilities important; average demand for spine and leg activities for this strength level; arms are one variant lower that 250. | Finger motion | F |
|   | Grip          | F |
|   | Leg           | E |
|   | Psych         | I |

Typical occupations: Food & Drug Inspector, Real Estate Agent. Sales, Rep. sporting goods

**Group 290**

|  |               |   |
|--|---------------|---|
| Personal Attendants  | Spine         | E |
|  | Shoulder      | G |
| Vision important; cosmetic appearance important; arms variants at high end for 200 series. | Elbow         | G |
|  | Wrist         | H |
|  | Finger motion | G |
|  | Grip          | F |
| Typical occupations: Hair Stylist  | Leg           | E |
|  | Psych         | H |

**Group 310**

|   |               |   |
|---|---------------|---|
| Medical Occupations   | Spine         | F |
|   | Shoulder      | F |
| Low end of 300 series for most parts of body; head disabilities, including speech, hearing, PTHS are highest in 300 series. | Elbow         | F |
|   | Wrist         | F |
|   | Finger motion | F |
|   | Grip          | F |
|   | Leg           | F |
| Typical occupations: Acupressurist, MRI Technologist, X-ray Technologist  | Psych         | I |

**Group 311**

|   |               |   |
|---|---------------|---|
| Mostly Medical Occupations  | Spine         | G |
|   | Shoulder      | F |
| Medical treatments performed result in higher spine demands; head disabilities are at the highest levels. | Elbow         | G |
|   | Wrist         | G |
|   | Finger motion | G |
|   | Grip          | F |
| Typical occupations: Masseur/Masseuse Nurse – LVN, Psychiatric Technician                                 | Leg           | F |
|   | Psych         | J |

**Group 320**

|  |               |   |
|--|---------------|---|
| Assemblers   | Spine         | F |
|  | Shoulder      | F |
| Precision work requiring use of hand tools; highest arm variants for the 320 series; lower end variants for 300 series for spine & leg (same as 321 & 322); highest head variants in 320 series. | Elbow         | H |
|  | Wrist         | I |
|  | Finger motion | H |
|  | Grip          | H |
|  | Leg           | F |
|  | Psych         | H |
| Typical occupations: Machinist, Office Machine Servicer, Television & Radio Repairer   |               |   |

**Group 321**

|   |               |   |
|---|---------------|---|
| Assemblers  | Spine         | F |
|   | Shoulder      | F |
| Use of hand tools required; precision requirements less than 320 – arm variants slightly lower; same demand on spine and legs as 320 & 322. | Elbow         | G |
|   | Wrist         | H |
|   | Finger motion | G |
|   | Grip          | G |
|   | Leg           | F |
| Typical occupations: Furniture  | Psych         | F |

Assembler, Garment Cutter, machine  
Painter, spray gun

Observation and control of  
machinery; occasional stooping  
required; mechanical adjustments  
performed; variants similar to 332.

Elbow F  
Wrist F  
Finger motion F  
Grip F  
Leg F  
Psych F

Typical occupations: Coating  
Machine Op, Mixing Machine Op,  
food prep; Washer, machine

### Group 322

Food Preparation and Service  
Occupations

Spine F  
Shoulder F  
Elbow G  
Wrist G  
Finger motion G  
Grip G  
Leg F  
Psych G

Least precise work in 320 series –  
arm variants the lowest; spine & legs  
same as 320 & 321

Typical occupations: Airline Flight  
Attendant, Cook, Waiter/Waitress

### Group 332

Observation of Large Stationary  
Equipment

Spine F  
Shoulder F  
Elbow F  
Wrist E  
Finger motion F  
Grip F  
Leg F  
Psych G

Work performed in a plant or other  
large facility, some mechanical  
adjustments of machinery performed  
lowest variants for 300 series for most  
parts of body.

Typical occupations: Brewery Cellar  
Worker, Power Reactor Operator,  
Stationary Engineer

### Group 330

Press Operators, Sawyers, etc.

Spine F  
Shoulder F  
Elbow G  
Wrist F  
Finger motion G  
Grip G  
Leg F  
Psych F

Most demanding on arms of machine  
operations series (330s); spine and  
legs at lower end for 300 series, &  
same as 331 & 322.

Typical occupations: Blister Machine  
Operator, Power Press Tender,  
Tubular Furniture Maker

### Group 340

Mostly Cleaners

Spine G  
Shoulder F  
Elbow G  
Wrist F  
Finger motion F  
Grip F  
Leg G  
Psych D

Work involves cleaning equipment  
and/or buildings; operation of  
cleaning devices, some lifting, some  
climbing, lowest variants for head  
disabilities of 300 series; lower end of  
300 series for arms; highest demands  
are for spine & leg activities

Typical occupations: Auto Washer &  
Polisher, Janitor, Nurse Aide

### Group 331

Machine Tending & Processing

Spine F  
Shoulder F

**Group 341**

|   |               |   |
|---|---------------|---|
| Cleaners (working at high levels)   | Spine         | G |
|   | Shoulder      | G |
| Work generally performed at high levels – higher end of 300 series for spine & legs; average demands on arms. | Elbow         | G |
|   | Wrist         | F |
|   | Finger motion | F |
|   | Grip          | F |
|   | Leg           | G |
| Typical occupations: Aircraft Service Attendant, Sign Poster, Window Cleaner                                  | Psych         | D |

**Group 350**

|   |               |   |
|---|---------------|---|
| Truck Drivers   | Spine         | G |
|   | Shoulder      | F |
| Operate heavy vehicle over public thoroughfares; may do some loading of materials, may tie down loads, may hook up hoses, etc., and performs related duties; head disabilities highest in 300 series. | Elbow         | H |
|   | Wrist         | F |
|   | Finger motion | G |
|   | Grip          | G |
|   | Leg           | G |
|   | Psych         | H |
| Typical occupations: Armored Car Driver, Lunch Truck Driver, Truck Driver   |               |   |

**Group 351**

|   |               |   |
|---|---------------|---|
| Heavy Equipment Operators   | Spine         | G |
|   | Shoulder      | G |
| Operates heavy construction equipment at work sites; arm demands at lower end of 300 series; spine & leg demands at higher end of 300 series. | Elbow         | H |
|   | Wrist         | G |
|   | Finger motion | G |
|   | Grip          | G |
|   | Leg           | G |
|   | Psych         | G |
| Typical occupations: Crane Operator, Forklift Operator, Snowplow Operator   |               |   |

**Group 360**

|  |               |   |
|--|---------------|---|
| Porters, Packers   | Spine         | G |
|  | Shoulder      | G |
| Significant lifting and carrying required; significant walking required; may occasionally climb at low levels; variants are “G” for most parts of body; head disabilities are mostly “F” or lower. | Elbow         | G |
|  | Wrist         | F |
|  | Finger motion | F |
|  | Grip          | G |
|  | Leg           | G |
|  | Psych         | E |
| Typical occupations: Clerk, Shipping; Conveyor Tender; Warehouse worker  |               |   |

**Group 370**

|  |               |   |
|--|---------------|---|
| Mechanical Assembly, Installation, Repairers   | Spine         | G |
|  | Shoulder      | G |
|  | Elbow         | I |
| Mechanical work on automobiles, machinery and other equipment, requiring a combination of some skill and significant physical effort; highest variants in 300 series for arm | Wrist         | J |
|  | Finger motion | H |
|  | Grip          | H |
|  | Leg           | G |
|  | Psych         | H |

and head disabilities

Typical occupations: Automobile Accessories Installer; Mechanic, automobile; Welder, Combination

### Group 380

Skilled Construction Work

|               |   |
|---------------|---|
| Spine         | H |
| Shoulder      | H |
| Elbow         | I |
| Wrist         | J |
| Finger motion | H |
| Grip          | H |
| Leg           | I |
| Psych         | H |

Work requires construction of buildings or large structure; strenuous demands on arms, legs & spine result in highest variants in 300 series; significant climbing required.

Typical occupations: Burglar Alarm, Carpenter Electrician

### Group 390

Security Officers, Coaches

|               |   |
|---------------|---|
| Spine         | G |
| Shoulder      | G |
| Elbow         | G |
| Wrist         | G |
| Finger motion | G |
| Grip          | G |
| Leg           | H |
| Psych         | H |

Inside and outside work requiring significant walking, some uneven ground, and climbing –leg demands are most significant aspect of duties; work may be high risk but not necessarily highly physical; demands for arms & spine are at middle of 300 series.

Typical occupations: Bodyguard, Instructor, Physical education, Security Officer

### Group 420

Meat Processing +

|               |   |
|---------------|---|
| Spine         | H |
| Shoulder      | G |
| Elbow         | H |
| Wrist         | I |
| Finger motion | G |
| Grip          | H |
| Leg           | G |
| Psych         | F |

Heavy demands placed on arms; spine demand similar to most in 400 series; leg demands lowest in 400 series.

Typical occupations: Baker, Butcher, Glass Cutter

### Group 430

Machine-assisted Metal Shaping

|               |   |
|---------------|---|
| Spine         | H |
| Shoulder      | H |
| Elbow         | I |
| Wrist         | H |
| Finger motion | H |
| Grip          | H |
| Leg           | H |
| Psych         | G |

Heavy demands on spine & legs in lifting & carrying; work performed at ground level; requires use of heavy hand tools or force with arms.

Typical occupations: Boilermaker, Power Brake Operator, Shear Operator

### Group 460

Material Handlers & Machine Loaders & Unloaders

|               |   |
|---------------|---|
| Spine         | H |
| Shoulder      | G |
| Elbow         | G |
| Wrist         | G |
| Finger motion | F |
| Grip          | G |
| Leg           | H |
| Psych         | E |

Strenuous demands on spine & legs for lifting and carrying heavy objects; lowest demand for specialized arm activities in 400 series.

Typical occupations: Baggage Handler, Chain Offbearer, Laborer,

**Group 470**

|   |               |   |
|---|---------------|---|
| Installers & Repairers  | Spine         | H |
|   | Shoulder      | H |
| Strenuous demands on all parts of body – variants are at the higher end of the 400 series.      | Elbow         | I |
|   | Wrist         | J |
|   | Finger motion | H |
|   | Grip          | H |
| Typical occupations: Household Appliance Installer, Maintenance Mechanic, Television Technician | Leg           | H |
|   | Psych         | H |

**Group 480**

|   |               |   |
|---|---------------|---|
| Construction Helpers, Oil Field Workers & Some Skilled Construction Workers   | Spine         | I |
|   | Shoulder      | H |
|   | Elbow         | H |
|   | Wrist         | G |
| Heavy laboring work at construction sites or other work sites; very strenuous use of spine for lifting and exerting force; heavy demands on arms (similar to 492); leg requirements lower than for 481 & 492. | Finger motion | G |
|   | Grip          | G |
|   | Leg           | H |
|   | Psych         | E |
| Typical occupations: Carpenter Helper; Laborer, construction; Roughneck   |               |   |

**Group 481**

|  |               |   |
|--|---------------|---|
| Skilled Construction Workers   | Spine         | I |
|  | Shoulder      | H |
| Work requires construction of buildings or large structures; skilled work performed at various levels, with significant demands for climbing, but lower demands on legs than 482; strenuous use of arms (same as 470). | Elbow         | I |
|  | Wrist         | J |
|  | Finger motion | H |
|  | Grip          | H |
|  | Leg           | I |
|  | Psych         | H |
| Typical occupations: Cable Television Installer, Millwright, Pipe Fitter   |               |   |

**Group 482**

|  |               |   |
|--|---------------|---|
| Skilled Construction Workers   | Spine         | J |
|  | Shoulder      | I |
| Construction and maintenance work performed at high and dangerous levels – balance required; demands on spine & legs similar to 590; very strenuous use of arms. | Elbow         | J |
|  | Wrist         | J |
|  | Finger motion | I |
|  | Grip          | J |
|  | Leg           | J |
|  | Psych         | I |
| Typical occupations: Bridge Maintenance Worker, Grip (movie industry), Tree Trimmer  |               |   |

**Group 490**

|   |               |   |
|---|---------------|---|
| Mostly Sworn Officers – Police & Fire (legal presumptions apply)                                  | Spine         | I |
|   | Shoulder      | I |
|   | Elbow         | I |
| Workers called upon to perform demanding activities in unpredictable and dangerous circumstances; | Wrist         | H |
|   | Finger motion | H |
|   | Grip          | I |

significant demands on all parts of body.

Leg I  
Psych J

Typical occupations: Fire Fighter, Paramedic, Police Officer

**Group 491**

Agricultural & Livestock Workers

Spine H  
Shoulder G  
Elbow G  
Wrist G  
Finger motion F  
Grip G  
Leg H  
Psych D

Work requires tending the land and/or caring for animals; physical demands & variants similar to 460 but slightly lower in mental demands.

Typical occupations: Dog Catcher; Farmer, General; Gardener

**Group 492**

Logging & Fishing Occupations

Spine I  
Shoulder H  
Elbow H  
Wrist H  
Finger motion G  
Grip H  
Leg I  
Psych E

Very physical work performed outside; high demand on spine & legs for balancing, working on rugged terrain, and climbing; arm and other variants similar to 560.

Typical occupations: Buckler, Logger, all-round

**Group 493**

Mostly Professional Athletes

Spine H  
Shoulder H  
Elbow H  
Wrist H  
Finger motion G  
Grip H  
Leg I  
Psych H

Substantial athletic performance required but less arduous than Group 590

Typical occupations: Bowler, professional, Ski instructor, Aerobic instructor

**Group 560**

Mostly Material Handlers

Spine J  
Shoulder H  
Elbow H  
Wrist H  
Finger motion G  
Grip H  
Leg I  
Psych D

Requires lifting of large and/or very heavy objects or exerting very significant force – very strenuous demands placed on spine & legs.

Typical occupations: Ambulance Attendant; Furniture Mover; Garbage Collector, manual

**Group 590**

Mostly Professional Athletes

Spine J  
Shoulder J  
Elbow J  
Wrist J  
Finger motion I  
Grip J  
Leg J  
Psych I

Peak athletic performance requiring whole body strength with specialized training and skills; highest variants for all parts of the body.

Typical occupations: Athlete, professional; Stunt Performer



## SECTION 4 - OCCUPATIONAL VARIANTS

Use this section to determine the occupational variant for the particular impairment and occupation under consideration.

Locate the row on which the impairment number appears\*, and the column headed by the group number. Record the letter appearing at the intersection of the row and column. This letter is the "Occupational Variant" which is represented by a letter between "C" and "J" inclusive.

After establishing the occupational variant, turn to Section 5, page 5-1 to adjust the rating for occupation.

\*All impairment numbers contain eight numbers in the form XX.XX.XX.XX. Ranges of impairment numbers with the same variants are represented in two ways. As an example, numbers beginning with 03.01-, 03.02- and 03.03- are represented as 03.01--03.03. And all impairment numbers beginning with 13.11.01- are shown as 13.11.01.XX.

|                |                | 110 | 111 | 112 | 120 |  | 210 | 211 | 212 | 213 | 214 | 220 | 221 | 230 | 240 | 250 | 251 | 290 |  | 310 | 311 | 320 | 321 | 322 | 330 |
|----------------|----------------|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|
| 03.01 -- 03.06 | CARDIO-HEART   | G   | F   | E   | E   |  | F   | F   | G   | G   | G   | G   | E   | E   | F   | G   | G   | F   |  | G   | H   | F   | F   | F   | F   |
| 04.01.00.00    | HYPERTENSION   | G   | F   | E   | E   |  | F   | F   | G   | G   | G   | G   | E   | E   | F   | G   | G   | F   |  | G   | H   | F   | F   | F   | F   |
| 04.02.00.00    | AORTIC DISEASE | G   | F   | E   | E   |  | F   | F   | G   | G   | G   | G   | E   | E   | F   | G   | G   | F   |  | G   | H   | F   | F   | F   | F   |
| 04.03.01.00    | PERIPH - UE    | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |
| 04.03.02.00    | PERIPH - LE    | D   | D   | D   | D   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |
| 04.04.00.00    | PULM CIRC      | F   | E   | D   | D   |  | H   | E   | F   | F   | F   | E   | E   | E   | E   | F   | F   | F   |  | F   | G   | F   | F   | F   | F   |
| 05.01 -- 05.03 | RESPIRATORY    | F   | E   | D   | D   |  | H   | E   | F   | F   | F   | E   | E   | E   | E   | F   | F   | F   |  | F   | G   | F   | F   | F   | F   |
| 06.01.00.00    | UPPER DIGEST   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |
| 06.02.00.00    | COLON, RECTUM  | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |
| 06.03.00.00    | FISTULAS       | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |
| 06.04.00.00    | LIVER          | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |
| 06.05.00.00    | HERNIA         | C   | C   | C   | C   |  | C   | D   | E   | F   | F   | D   | D   | E   | E   | F   | E   | D   |  | F   | G   | F   | F   | F   | F   |
| 07.01 -- 07.04 | URINARY        | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |
| 07.05.00.00    | REPRODUCTIVE   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |
| 08.01 -- 08.02 | SKIN-SCARS     | I   | I   | I   | H   |  | J   | I   | I   | H   | J   | J   | G   | E   | J   | H   | J   | J   |  | I   | J   | E   | E   | H   | E   |
| 08.03 -- 08.04 | DERMATITIS     | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | G   | F   | F   | F   | F   | F   | H   |  | F   | G   | G   | F   | H   | F   |
| 08.05.00.00    | SKIN CANCER    | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |
| 09.01.00.00    | HEMATOPOIETIC  | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |
| 10.01.00.00    | DIABETES       | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |
| 11.01.01.00    | EAR-HEARING    | J   | H   | I   | F   |  | J   | H   | I   | H   | J   | H   | D   | E   | H   | H   | J   | I   |  | J   | J   | E   | D   | H   | E   |
| 11.01.02.00    | VESTIBULAR     | D   | D   | D   | D   |  | E   | D   | E   | H   | F   | F   | F   | F   | E   | G   | F   | E   |  | F   | F   | F   | F   | F   | F   |
| 11.02.01.00    | FACE-COSMETIC  | I   | I   | I   | H   |  | J   | I   | I   | H   | J   | J   | G   | E   | J   | H   | J   | J   |  | I   | J   | E   | E   | H   | E   |
| 11.02.02.00    | FACE-EYE       | I   | I   | J   | J   |  | J   | I   | I   | I   | J   | J   | H   | G   | G   | I   | I   | J   |  | I   | J   | I   | H   | H   | G   |
| 11.03.01.00    | NOSE - SMELL   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | H   | F   |
| 11.03.02.00    | MASTICATION    | I   | H   | H   | F   |  | J   | H   | I   | H   | J   | I   | F   | F   | G   | G   | I   | H   |  | H   | I   | F   | F   | G   | F   |
| 11.03.03.00    | TASTE-SMELL    | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | H   | F   |
| 11.03.04.00    | VOICE-SPEECH   | J   | I   | I   | F   |  | J   | I   | I   | H   | J   | I   | D   | D   | H   | H   | J   | I   |  | I   | I   | D   | C   | G   | D   |
| 12.01 -- 12.03 | VISION         | H   | I   | J   | J   |  | I   | I   | I   | I   | I   | J   | H   | G   | F   | I   | H   | I   |  | I   | I   | I   | H   | G   | G   |

|                |                | 331 | 332 | 340 | 341 | 350 | 351 | 360 | 370 | 380 | 390 |  | 420 | 430 | 460 | 470 | 480 | 481 | 482 | 490 | 491 | 492 | 493 |  | 560 | 590 |
|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|
| 03.01 -- 03.06 | CARDIO-HEART   | F   | F   | G   | G   | H   | G   | G   | G   | H   | H   |  | H   | H   | H   | H   | H   | H   | I   | I   | H   | H   | I   |  | H   | J   |
| 04.01.00.00    | HYPERTENSION   | F   | F   | G   | G   | H   | G   | G   | G   | H   | H   |  | H   | H   | H   | H   | H   | H   | I   | I   | H   | H   | I   |  | H   | J   |
| 04.02.00.00    | AORTIC DISEASE | F   | F   | G   | G   | H   | G   | G   | G   | H   | H   |  | H   | H   | H   | H   | H   | H   | I   | I   | H   | H   | I   |  | H   | J   |
| 04.03.01.00    | PERIPH - UE    | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | I   |  | H   | J   |
| 04.03.02.00    | PERIPH - LE    | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |
| 04.04.00.00    | PULM CIRC      | F   | F   | G   | G   | G   | G   | G   | G   | H   | H   |  | G   | H   | G   | H   | H   | H   | I   | I   | G   | H   | I   |  | H   | J   |
| 05.01 -- 05.03 | RESPIRATORY    | F   | F   | G   | G   | G   | G   | G   | G   | H   | H   |  | G   | H   | G   | H   | H   | H   | I   | I   | G   | H   | I   |  | H   | J   |
| 06.01.00.00    | UPPER DIGEST   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |
| 06.02.00.00    | COLON, RECTUM  | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   | H   |  | G   | H   |
| 06.03.00.00    | FISTULAS       | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |
| 06.04.00.00    | LIVER          | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |
| 06.05.00.00    | HERNIA         | F   | F   | G   | G   | G   | F   | G   | G   | H   | G   |  | H   | H   | H   | H   | H   | H   | J   | H   | H   | H   | H   |  | I   | J   |
| 07.01 -- 07.04 | URINARY        | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   | H   |  | G   | H   |
| 07.05.00.00    | REPRODUCTIVE   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |
| 08.01 -- 08.02 | SKIN-SCARS     | E   | E   | G   | E   | G   | E   | F   | F   | F   | H   |  | E   | E   | F   | F   | E   | F   | E   | J   | E   | E   | I   |  | E   | I   |
| 08.03 -- 08.04 | DERMATITIS     | G   | F   | G   | G   | F   | F   | F   | G   | G   | F   |  | H   | F   | F   | G   | F   | G   | F   | F   | F   | F   | F   |  | F   | F   |
| 08.05.00.00    | SKIN CANCER    | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   | H   |  | G   | H   |
| 09.01.00.00    | HEMATOPOIETIC  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |
| 10.01.00.00    | DIABETES       | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |
| 11.01.01.00    | EAR-HEARING    | E   | G   | F   | E   | H   | G   | G   | G   | G   | H   |  | D   | F   | F   | G   | F   | G   | H   | I   | F   | F   | I   |  | F   | I   |
| 11.01.02.00    | VESTIBULAR     | F   | F   | F   | I   | G   | G   | F   | H   | J   | G   |  | F   | G   | F   | H   | G   | J   | J   | I   | F   | H   | I   |  | H   | J   |
| 11.02.01.00    | FACE-COSMETIC  | E   | E   | G   | E   | G   | E   | F   | F   | F   | H   |  | E   | E   | F   | F   | E   | F   | E   | J   | E   | E   | I   |  | E   | I   |
| 11.02.02.00    | FACE - EYE     | F   | G   | F   | F   | I   | H   | F   | H   | H   | H   |  | G   | G   | F   | H   | F   | H   | I   | J   | F   | G   | I   |  | F   | I   |
| 11.03.01.00    | NOSE - SMELL   | F   | F   | F   | F   | H   | F   | F   | F   | G   | H   |  | F   | G   | F   | F   | F   | G   | I   | J   | F   | G   | F   |  | F   | J   |
| 11.03.02.00    | MASTICATION    | F   | F   | F   | F   | G   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | F   | F   | G   | H   | F   | G   | F   |  | F   | G   |
| 11.03.03.00    | TASTE-SMELL    | F   | F   | F   | F   | F   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | F   | F   | F   | G   | F   | F   | F   |  | F   | F   |
| 11.03.04.00    | VOICE-SPEECH   | D   | F   | G   | F   | H   | F   | G   | F   | G   | H   |  | C   | D   | F   | F   | F   | G   | G   | I   | F   | G   | H   |  | F   | H   |
| 12.01 -- 12.03 | VISION         | F   | G   | F   | F   | I   | H   | F   | H   | H   | G   |  | G   | G   | F   | H   | F   | H   | I   | I   | F   | G   | I   |  | F   | I   |

|             |                    | 110   | 111 | 112 | 120 |  | 210 | 211 | 212 | 213 | 214 | 220 | 221 | 230 | 240 | 250 | 251 | 290 |  | 310 | 311 | 320 | 321 | 322 | 330 |  |  |
|-------------|--------------------|---|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|--|--|
| 13.01.00.00 | CONSCIOUSNESS      | I   | H   | H   | H   |  | H   | H   | H   | I   | H   | H   | G   | F   | G   | H   | H   | G   |  | H   | H   | H   | F   | G   | F   |  |  |
| 13.02.00.00 | EPISODIC NEURO     | H   | G   | I   | I   |  | H   | G   | H   | I   | H   | I   | H   | F   | F   | J   | I   | H   |  | I   | I   | I   | G   | H   | H   |  |  |
| 13.03.00.00 | AROUSAL            | I   | H   | H   | H   |  | H   | H   | H   | I   | H   | H   | G   | F   | G   | H   | H   | G   |  | H   | H   | H   | F   | G   | F   |  |  |
| 13.04.00.00 | COGNITIVE IMP      | I   | H   | H   | H   |  | H   | H   | H   | I   | H   | H   | G   | F   | G   | H   | H   | G   |  | H   | H   | H   | F   | G   | F   |  |  |
| 13.05.00.00 | LANGUAGE DISOR     | J   | I   | I   | F   |  | J   | I   | I   | H   | J   | I   | D   | D   | H   | H   | J   | I   |  | I   | I   | D   | C   | G   | D   |  |  |
| 13.06.00.00 | BEHAV-EMOT         | J   | I   | I   | H   |  | I   | H   | J   | I   | I   | J   | F   | F   | G   | H   | I   | H   |  | I   | J   | H   | F   | G   | F   |  |  |
| 13.07.01.00 | CRANIAL-OLFACTORY  | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | H   | F   |  |  |
| 13.07.02.00 | CRANIAL-OPTIC      | H   | I   | J   | J   |  | I   | I   | I   | I   | I   | J   | H   | G   | F   | I   | H   | I   |  | I   | I   | I   | H   | G   | G   |  |  |
| 13.07.03.00 | CRANIAL-OCULO      | H   | I   | J   | J   |  | I   | I   | I   | I   | I   | J   | H   | G   | F   | I   | H   | I   |  | I   | I   | I   | H   | G   | G   |  |  |
| 13.07.04.00 | CRANIAL-TRIGEM     | I   | H   | H   | F   |  | J   | H   | I   | H   | J   | I   | F   | F   | G   | G   | I   | H   |  | H   | I   | F   | F   | G   | F   |  |  |
| 13.07.05.00 | CRANIAL-FACIAL     | I   | I   | I   | H   |  | J   | I   | I   | H   | J   | J   | G   | E   | J   | H   | J   | J   |  | I   | J   | E   | E   | H   | E   |  |  |
| 13.07.06.01 | CRANIAL-VERTIGO    | D   | D   | D   | D   |  | E   | D   | E   | H   | F   | F   | F   | F   | E   | G   | F   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.07.06.02 | CRANIAL-TINNITUS   | J   | H   | I   | F   |  | J   | H   | I   | H   | J   | H   | D   | E   | H   | H   | J   | I   |  | J   | J   | E   | D   | H   | E   |  |  |
| 13.07.07.00 | CRANIAL-GLOSSO     | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.07.08.00 | CRANIAL-SPINAL ACC | This impairment can affect swallowing and speech, head turning and shoulder motion. Use variant from 11.03.04.00, 15.01.XX.XX, or 16.02.01.00 as appropriate. |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |  |
| 13.07.09.00 | CRANIAL-HYPOGLOS   | J   | I   | I   | F   |  | J   | I   | I   | H   | J   | I   | D   | D   | H   | H   | J   | I   |  | I   | I   | D   | C   | G   | D   |  |  |
| 13.08.00.00 | STATION GAIT       | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.09.00.00 | UPPER EXTREM       | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |  |
| 13.10.01.00 | SPINAL-RESPIR      | F   | E   | D   | D   |  | H   | E   | F   | F   | F   | E   | E   | E   | E   | F   | F   | F   |  | F   | G   | F   | F   | F   | F   |  |  |
| 13.10.02.00 | SPINAL-URINARY     | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.10.03.00 | SPINAL-ANORECT     | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.10.04.00 | SPINAL-SEXUAL      | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.11.01.XX | PAIN-UE            | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |  |
| 13.11.02.XX | PAIN-LE            | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 13.12.01.XX | PERIPH-SPINE       | C   | C   | D   | D   |  | D   | D   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | G   | F   | F   | F   | F   |  |  |
| 13.12.02.XX | PERIPH-UE          | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |  |
| 13.12.03.XX | PERIPH-LE          | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 14.01.00.00 | PSYCHIAETRIC       | J   | I   | I   | H   |  | I   | H   | J   | I   | I   | J   | F   | F   | G   | H   | I   | H   |  | I   | J   | H   | F   | G   | F   |  |  |

|             |                    | 331   | 332 | 340 | 341 | 350 | 351 | 360 | 370 | 380 | 390 |  | 420 | 430 | 460 | 470 | 480 | 481 | 482 | 490 | 491 | 492 | 493 |   | 560 | 590 |
|-------------|--------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|
| 13.01.00.00 | CONSCIOUSNESS      | F   | F   | D   | H   | H   | G   | E   | H   | I   | G   |  | F   | H   | E   | H   | F   | I   | J   | I   | D   | G   | G   |   | E   | J   |
| 13.02.00.00 | EPISODIC NEURO     | G   | G   | F   | I   | J   | J   | F   | I   | J   | G   |  | G   | I   | G   | I   | H   | J   | J   | J   | G   | H   | G   |   | H   | J   |
| 13.03.00.00 | AROUSAL            | F   | F   | D   | H   | H   | G   | E   | H   | I   | G   |  | F   | H   | E   | H   | F   | I   | J   | I   | D   | G   | G   |   | E   | J   |
| 13.04.00.00 | COGNITIVE IMP      | F   | F   | D   | H   | H   | G   | E   | H   | I   | G   |  | F   | H   | E   | H   | F   | I   | J   | I   | D   | G   | G   |   | E   | J   |
| 13.05.00.00 | LANGUAGE DISOR     | D   | F   | G   | F   | H   | F   | G   | F   | G   | H   |  | C   | D   | F   | F   | F   | G   | G   | I   | F   | G   | H   |   | F   | H   |
| 13.06.00.00 | BEHAV-EMOT         | F   | G   | D   | D   | H   | G   | E   | H   | H   | H   |  | F   | G   | E   | H   | E   | H   | I   | J   | D   | E   | H   |   | D   | I   |
| 13.07.01.00 | CRANIAL-OLFACTORY  | F   | F   | F   | F   | F   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | F   | F   | F   | G   | F   | F   | F   |   | F   | F   |
| 13.07.02.00 | CRANIAL-OPTIC      | F   | G   | F   | F   | I   | H   | F   | H   | H   | G   |  | G   | G   | F   | H   | F   | H   | I   | I   | F   | G   | I   |   | F   | I   |
| 13.07.03.00 | CRANIAL-OCULO      | F   | G   | F   | F   | I   | H   | F   | H   | H   | G   |  | G   | G   | F   | H   | F   | H   | I   | I   | F   | G   | I   |   | F   | I   |
| 13.07.04.00 | CRANIAL-TRIGEM     | F   | F   | F   | F   | G   | F   | F   | F   | F   | G   |  | F   | F   | F   | F   | F   | F   | G   | H   | F   | G   | G   |   | F   | G   |
| 13.07.05.00 | CRANIAL-FACIAL     | E   | E   | G   | E   | G   | E   | F   | F   | F   | H   |  | E   | E   | F   | F   | E   | F   | E   | J   | E   | E   | H   |   | E   | I   |
| 13.07.06.01 | CRANIAL-VERTIGO    | F   | F   | F   | I   | G   | G   | F   | H   | J   | G   |  | F   | G   | F   | H   | G   | J   | J   | I   | F   | H   | I   |   | H   | J   |
| 13.07.06.02 | CRANIAL-TINNITUS   | E   | G   | F   | E   | H   | G   | G   | G   | G   | H   |  | D   | F   | F   | G   | F   | G   | H   | I   | F   | F   | I   |   | F   | I   |
| 13.07.07.00 | CRANIAL-GLOSSO     | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |   | F   | F   |
| 13.07.08.00 | CRANIAL-SPINAL ACC | This impairment can affect swallowing and speech, head turning and shoulder motion. Use variant from 11.03.04.00, 15.01.XX.XX, or 16.02.01.00 as appropriate. |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |   |     |     |
| 13.07.09.00 | CRANIAL-HYPOGLOS   | D   | F   | G   | F   | H   | F   | G   | F   | G   | H   |  | C   | D   | F   | F   | F   | G   | G   | I   | F   | G   | H   |   | F   | H   |
| 13.08.00.00 | STATION GAIT       | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |   | I   | J   |
| 13.09.00.00 | UPPER EXTREM       | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |   | H   | J   |
| 13.10.01.00 | SPINAL-RESPIR      | F   | F   | G   | G   | G   | G   | G   | G   | H   | H   |  | G   | H   | G   | H   | H   | I   | I   | G   | H   | I   |     | H | J   |     |
| 13.10.02.00 | SPINAL-URINARY     | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   |     | G | H   |     |
| 13.10.03.00 | SPINAL-ANORECT     | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   |     | G | H   |     |
| 13.10.04.00 | SPINAL-SEXUAL      | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |     | F | F   |     |
| 13.11.01.XX | PAIN-UE            | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |   | H   | J   |
| 13.11.02.XX | PAIN-LE            | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |   | I   | J   |
| 13.12.01.XX | PERIPH-SPINE       | F   | F   | G   | G   | G   | G   | G   | G   | H   | G   |  | H   | H   | H   | H   | I   | I   | J   | I   | H   | I   | H   |   | J   | J   |
| 13.12.02.XX | PERIPH-UE          | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |   | H   | J   |
| 13.12.03.XX | PERIPH-LE          | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |   | I   | J   |
| 14.01.00.00 | PSYCHIAETRIC       | F   | G   | D   | D   | H   | G   | E   | H   | H   | H   |  | F   | G   | E   | H   | E   | H   | I   | J   | D   | E   | H   |   | D   | I   |

|                |                | 110 | 111 | 112 | 120 |  | 210 | 211 | 212 | 213 | 214 | 220 | 221 | 230 | 240 | 250 | 251 | 290 |  | 310 | 311 | 320 | 321 | 322 | 330 |  |
|----------------|----------------|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|--|
| 15.01 -- 15.03 | SPINE-DRE-ROM  | C   | C   | D   | D   |  | D   | D   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | G   | F   | F   | F   | F   |  |
| 15.04.01.00    | CORTIC-ONE UE  | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 15.04.02.00    | CORTIC-TWO UE  | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 15.04.03.00    | CORTIC-GAIT    | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |
| 15.04.04.00    | CORTIC-BLADDER | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |  |
| 15.04.05.00    | CORTIC-ANOREC  | F   | F   | F   | F   |  | F   | F   | F   | H   | F   | F   | F   | F   | G   | G   | G   | F   |  | F   | F   | F   | F   | F   | F   |  |
| 15.04.06.00    | CORTIC-SEXUAL  | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   |  |
| 15.04.07.00    | CORTIC-RESPIR  | F   | E   | D   | D   |  | H   | E   | F   | F   | F   | E   | E   | E   | E   | F   | F   | F   |  | F   | G   | F   | F   | F   | F   |  |
| 15.05.XX.XX    | PELVIC         | C   | C   | D   | D   |  | D   | D   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | G   | F   | F   | F   | F   |  |
|                |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |
| 16.01.01.XX    | ARM-AMPUT      | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.01.02.01    | BRACHIAL PLEX  | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.01.02.02    | CARPAL TUNNEL  | D   | G   | H   | H   |  | D   | G   | F   | E   | G   | H   | G   | F   | E   | F   | E   | H   |  | F   | G   | I   | H   | G   | F   |  |
| 16.01.02.03    | ENTRAP-OTHER   | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.01.02.04    | CRPS I         | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.01.02.05    | CRPS II        | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.01.03.00    | PERIPH VASC    | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.01.04.00    | ARM-GRIP/PINCH | D   | E   | E   | F   |  | C   | E   | E   | E   | F   | F   | F   | G   | D   | F   | F   | F   |  | F   | F   | H   | G   | G   | G   |  |
| 16.01.05.00    | ARM-OTHER      | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
|                |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |
| 16.02.01.00    | SHOULDER-ROM   | C   | D   | D   | E   |  | C   | D   | E   | E   | F   | F   | F   | F   | D   | F   | D   | G   |  | F   | F   | F   | F   | F   | F   |  |
| 16.02.02.00    | SHOULDER-OTHER | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.03.01.00    | ELBOW-ROM      | D   | F   | G   | G   |  | D   | F   | E   | E   | F   | G   | G   | F   | E   | G   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.03.02.00    | ELBOW-OTHER    | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.04.01.00    | WRIST-ROM      | D   | G   | H   | H   |  | D   | G   | F   | E   | G   | H   | G   | F   | E   | F   | E   | H   |  | F   | G   | I   | H   | G   | F   |  |
| 16.04.02.00    | WRIST-OTHER    | E   | G   | H   | H   |  | E   | G   | F   | E   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
|                |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |
| 16.05.XX.XX    | HAND           | F   | G   | I   | H   |  | E   | G   | F   | F   | G   | H   | G   | G   | E   | F   | F   | G   |  | F   | G   | H   | G   | G   | G   |  |
| 16.06.01.XX    | THUMB          | F   | G   | G   | H   |  | E   | G   | F   | F   | G   | H   | H   | G   | E   | F   | F   | H   |  | F   | G   | H   | G   | G   | G   |  |
| 16.06.02.XX    | INDEX          | F   | H   | I   | I   |  | E   | H   | G   | F   | H   | I   | H   | G   | E   | F   | F   | H   |  | G   | H   | I   | H   | H   | G   |  |
| 16.06.03.XX    | MIDDLE         | F   | H   | I   | I   |  | E   | H   | G   | F   | H   | I   | H   | G   | E   | F   | F   | H   |  | G   | H   | I   | H   | H   | G   |  |
| 16.06.04.XX    | RING           | F   | G   | I   | G   |  | E   | G   | F   | F   | G   | G   | G   | F   | E   | F   | F   | F   |  | F   | G   | H   | G   | G   | F   |  |
| 16.06.05.XX    | LITTLE         | F   | G   | I   | G   |  | E   | G   | F   | F   | G   | G   | G   | F   | E   | F   | F   | F   |  | F   | G   | H   | G   | G   | F   |  |

|                |                | 331 | 332 | 340 | 341 | 350 | 351 | 360 | 370 | 380 | 390 |  | 420 | 430 | 460 | 470 | 480 | 481 | 482 | 490 | 491 | 492 | 493 |  | 560 | 590 |  |
|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|--|
| 15.01 -- 15.03 | SPINE-DRE-ROM  | F   | F   | G   | G   | G   | G   | G   | G   | H   | G   |  | H   | H   | H   | H   | I   | I   | J   | I   | H   | I   | H   |  | J   | J   |  |
| 15.04.01.00    | CORTIC-ONE UE  | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 15.04.02.00    | CORTIC-TWO UE  | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 15.04.03.00    | CORTIC-GAIT    | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 15.04.04.00    | CORTIC-BLADDER | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   | H   |  | G   | H   |  |
| 15.04.05.00    | CORTIC-ANOREC  | F   | F   | F   | H   | G   | G   | F   | F   | H   | G   |  | F   | F   | F   | F   | H   | H   | H   | H   | H   | H   | H   |  | G   | H   |  |
| 15.04.06.00    | CORTIC-SEXUAL  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   | F   |  | F   | F   |  |
| 15.04.07.00    | CORTIC-RESPIR  | F   | F   | G   | G   | G   | G   | G   | G   | H   | H   |  | G   | H   | G   | H   | H   | H   | I   | I   | G   | H   | I   |  | H   | J   |  |
| 15.05.XX.XX    | PELVIC         | F   | F   | G   | G   | G   | G   | G   | G   | H   | G   |  | H   | H   | H   | H   | I   | I   | J   | I   | H   | I   | H   |  | J   | J   |  |
|                |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 16.01.01.XX    | ARM-AMPUT      | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.02.01    | BRACHIAL PLEX  | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.02.02    | CARPAL TUNNEL  | F   | E   | F   | F   | F   | G   | F   | J   | J   | G   |  | I   | H   | G   | J   | G   | J   | J   | H   | G   | H   | H   |  | H   | J   |  |
| 16.01.02.03    | ENTRAP-OTHER   | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.02.04    | CRPS I         | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.02.05    | CRPS II        | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.03.00    | PERIPH VASC    | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.04.00    | ARM-GRIP/PINCH | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.01.05.00    | ARM-OTHER      | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
|                |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 16.02.01.00    | SHOULDER-ROM   | F   | F   | F   | G   | F   | G   | G   | G   | H   | G   |  | G   | H   | G   | H   | H   | H   | I   | I   | G   | H   | H   |  | H   | J   |  |
| 16.02.02.00    | SHOULDER-OTHER | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.03.01.00    | ELBOW-ROM      | F   | F   | G   | G   | H   | H   | G   | I   | I   | G   |  | H   | I   | G   | I   | H   | I   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.03.02.00    | ELBOW-OTHER    | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
| 16.04.01.00    | WRIST-ROM      | F   | E   | F   | F   | F   | G   | F   | J   | J   | G   |  | I   | H   | G   | J   | G   | J   | J   | H   | G   | H   | H   |  | H   | J   |  |
| 16.04.02.00    | WRIST-OTHER    | F   | F   | F   | F   | G   | G   | G   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | J   | I   | G   | H   | H   |  | H   | J   |  |
|                |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 16.05.XX.XX    | HAND           | F   | F   | F   | F   | G   | G   | F   | H   | H   | G   |  | G   | H   | F   | H   | G   | H   | I   | H   | F   | G   | G   |  | G   | I   |  |
| 16.06.01.XX    | THUMB          | F   | F   | F   | F   | G   | G   | F   | H   | H   | G   |  | H   | H   | G   | H   | G   | H   | I   | H   | G   | H   | G   |  | H   | I   |  |
| 16.06.02.XX    | INDEX          | F   | F   | F   | F   | G   | G   | F   | I   | I   | G   |  | G   | H   | F   | I   | G   | I   | I   | H   | F   | G   | G   |  | G   | I   |  |
| 16.06.03.XX    | MIDDLE         | F   | F   | F   | F   | G   | G   | F   | I   | I   | G   |  | G   | H   | F   | I   | G   | I   | I   | H   | F   | G   | G   |  | G   | I   |  |
| 16.06.04.XX    | RING           | F   | F   | F   | F   | F   | F   | F   | H   | H   | G   |  | G   | H   | F   | H   | G   | H   | H   | H   | F   | G   | G   |  | G   | I   |  |
| 16.06.05.XX    | LITTLE         | F   | F   | F   | F   | F   | F   | F   | H   | H   | G   |  | G   | H   | F   | H   | G   | H   | H   | H   | F   | G   | G   |  | G   | I   |  |

|             |                | 110 | 111 | 112 | 120 |  | 210 | 211 | 212 | 213 | 214 | 220 | 221 | 230 | 240 | 250 | 251 | 290 |  | 310 | 311 | 320 | 321 | 322 | 330 |  |  |
|-------------|----------------|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|--|--|
| 17.01.01.00 | LEG-LENGTH     | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.01.02.XX | LEG-AMPUT      | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.01.03.00 | LEG-SKIN LOSS  | D   | D   | D   | D   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.01.04.00 | LEG-PERIPH NRV | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.01.05.00 | LEG-VASCULAR   | D   | D   | D   | D   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.01.06.00 | LEG-CAUSALGIA  | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.01.07.00 | LEG-GAIT       | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.01.08.00 | LEG-OTHER      | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
|             |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |  |
| 17.02.10.00 | PELVIS-FX.     | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.03.XX.XX | HIP            | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
|             |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |  |
| 17.04.10.00 | FEMUR-FX       | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.05.XX.XX | KNEE           | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.06.10.00 | TIBIA-FX       | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.07.XX.XX | ANKLE          | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
|             |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |  |
| 17.08.01.00 | FOOT-ATROPHY   | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.08.02.00 | FOOT-ANKYLOSIS | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.08.03.00 | FOOT-ARTHRITIS | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.08.04.00 | FOOT-ROM       | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.08.05.00 | FOOT-STRENGTH  | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.08.06.00 | FOOT-OTHER     | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.08.10.XX | FOOT-DBE       | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
|             |                |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |  |  |
| 17.09.01.00 | TOE-ATROPHY    | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.09.02.00 | TOE-ANKYLOSIS  | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.09.03.00 | TOE-ARTHRITIS  | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.09.04.00 | TOE-ROM        | C   | C   | C   | C   |  | D   | D   | D   | E   | D   | D   | D   | D   | D   | D   | D   | D   |  | D   | E   | E   | E   | E   | E   |  |  |
| 17.09.05.00 | TOE-STRENGTH   | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.09.06.00 | TOE-AMPUTATION | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |
| 17.09.07.00 | TOE-OTHER      | D   | D   | C   | C   |  | E   | E   | E   | F   | F   | E   | E   | E   | E   | F   | E   | E   |  | F   | F   | F   | F   | F   | F   |  |  |



|             |                | 331 | 332 | 340 | 341 | 350 | 351 | 360 | 370 | 380 | 390 |  | 420 | 430 | 460 | 470 | 480 | 481 | 482 | 490 | 491 | 492 | 493 |  | 560 | 590 |  |
|-------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|--|
| 17.01.01.00 | LEG-LENGTH     | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | I   |  | G   | H   |  |
| 17.01.02.00 | LEG-AMPUT      | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.01.03.00 | LEG-SKIN LOSS  | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.01.04.00 | LEG-PERIPH NRV | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.01.05.00 | LEG-VASCULAR   | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.01.06.00 | LEG-CAUSALGIA  | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.01.07.00 | LEG-GAIT       | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.01.08.00 | LEG-OTHER      | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
|             |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 17.02.10.00 | PELVIS-FX.     | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.03.XX.XX | HIP            | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
|             |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 17.04.10.00 | FEMUR-FX       | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.05.XX.XX | KNEE           | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.06.10.00 | TIBIA-FX       | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.07.XX.XX | ANKLE          | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
|             |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 17.08.01.00 | FOOT-ATROPHY   | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.08.02.00 | FOOT-ANKYLOSIS | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | I   |  | G   | H   |  |
| 17.08.03.00 | FOOT-ARTHRITIS | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.08.04.00 | FOOT-ROM       | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | I   |  | G   | H   |  |
| 17.08.05.00 | FOOT-STRENGTH  | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.08.06.00 | FOOT-OTHER     | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
| 17.08.10.XX | FOOT-DBE       | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | I   |  | I   | J   |  |
|             |                |     |     |     |     |     |     |     |     |     |     |  |     |     |     |     |     |     |     |     |     |     |     |  |     |     |  |
| 17.09.01.00 | TOE-ATROPHY    | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | H   |  | G   | H   |  |
| 17.09.02.00 | TOE-ANKYLOSIS  | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | H   |  | G   | H   |  |
| 17.09.03.00 | TOE-ARTHRITIS  | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | H   |  | G   | H   |  |
| 17.09.04.00 | TOE-ROM        | E   | F   | E   | G   | E   | E   | E   | F   | G   | F   |  | F   | F   | F   | F   | G   | G   | H   | G   | F   | G   | H   |  | G   | H   |  |
| 17.09.05.00 | TOE-STRENGTH   | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | H   |  | I   | J   |  |
| 17.09.06.00 | TOE-AMPUTATION | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | H   |  | I   | J   |  |
| 17.09.07.00 | TOE-OTHER      | F   | F   | G   | G   | G   | G   | G   | G   | I   | H   |  | G   | H   | H   | H   | H   | I   | J   | I   | H   | I   | H   |  | I   | J   |  |

## **SECTION 5 - OCCUPATIONAL ADJUSTMENT**

Use this table to adjust the rating for occupation.

Locate the row on which the rating (after adjustment for diminished future earning capacity) appears and the column headed by the occupation variant (obtained from the Occupational Variant Table in Section 4). Record the number appearing at the intersection of this row and column. This is the rating after adjustment for occupation.

After adjusting the rating for occupation, turn to Section 6, page 6-1 to adjust for age.

OCCUPATIONAL ADJUSTMENT TABLE

| Standard Rating<br>Percent |    |    |    |    |    |    |    |    | Standard Rating<br>Percent |    |    |    |    |    |    |    |    |
|----------------------------|----|----|----|----|----|----|----|----|----------------------------|----|----|----|----|----|----|----|----|
|                            | C  | D  | E  | F  | G  | H  | I  | J  |                            | C  | D  | E  | F  | G  | H  | I  | J  |
| <b>0</b>                   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |                            |    |    |    |    |    |    |    |    |
| <b>1</b>                   | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  | <b>26</b>                  | 19 | 22 | 24 | 26 | 29 | 31 | 34 | 37 |
| <b>2</b>                   | 1  | 2  | 2  | 2  | 3  | 3  | 4  | 4  | <b>27</b>                  | 20 | 23 | 25 | 27 | 30 | 33 | 35 | 38 |
| <b>3</b>                   | 2  | 2  | 3  | 3  | 4  | 5  | 5  | 6  | <b>28</b>                  | 21 | 24 | 26 | 28 | 31 | 34 | 36 | 39 |
| <b>4</b>                   | 3  | 3  | 4  | 4  | 5  | 6  | 7  | 8  | <b>29</b>                  | 22 | 24 | 27 | 29 | 32 | 35 | 37 | 40 |
| <b>5</b>                   | 3  | 4  | 4  | 5  | 6  | 7  | 8  | 9  | <b>30</b>                  | 23 | 25 | 28 | 30 | 33 | 36 | 38 | 41 |
| <b>6</b>                   | 4  | 5  | 5  | 6  | 7  | 8  | 9  | 11 | <b>31</b>                  | 24 | 26 | 29 | 31 | 34 | 37 | 40 | 43 |
| <b>7</b>                   | 5  | 5  | 6  | 7  | 8  | 10 | 11 | 12 | <b>32</b>                  | 25 | 27 | 30 | 32 | 35 | 38 | 41 | 44 |
| <b>8</b>                   | 6  | 6  | 7  | 8  | 9  | 11 | 12 | 14 | <b>33</b>                  | 25 | 28 | 30 | 33 | 36 | 39 | 42 | 45 |
| <b>9</b>                   | 6  | 7  | 8  | 9  | 11 | 12 | 14 | 15 | <b>34</b>                  | 26 | 29 | 31 | 34 | 37 | 40 | 43 | 46 |
| <b>10</b>                  | 7  | 8  | 9  | 10 | 12 | 13 | 15 | 16 | <b>35</b>                  | 27 | 30 | 32 | 35 | 38 | 41 | 44 | 47 |
| <b>11</b>                  | 7  | 9  | 10 | 11 | 13 | 14 | 16 | 18 | <b>36</b>                  | 28 | 31 | 33 | 36 | 39 | 42 | 45 | 48 |
| <b>12</b>                  | 8  | 10 | 11 | 12 | 14 | 16 | 17 | 19 | <b>37</b>                  | 29 | 32 | 34 | 37 | 40 | 43 | 46 | 49 |
| <b>13</b>                  | 9  | 10 | 12 | 13 | 15 | 17 | 18 | 20 | <b>38</b>                  | 30 | 32 | 35 | 38 | 41 | 44 | 47 | 50 |
| <b>14</b>                  | 10 | 11 | 13 | 14 | 16 | 18 | 20 | 22 | <b>39</b>                  | 31 | 33 | 36 | 39 | 42 | 45 | 48 | 51 |
| <b>15</b>                  | 11 | 12 | 14 | 15 | 17 | 19 | 21 | 23 | <b>40</b>                  | 32 | 34 | 37 | 40 | 43 | 46 | 49 | 52 |
| <b>16</b>                  | 11 | 13 | 14 | 16 | 18 | 20 | 22 | 24 | <b>41</b>                  | 33 | 35 | 38 | 41 | 44 | 47 | 50 | 54 |
| <b>17</b>                  | 12 | 14 | 15 | 17 | 19 | 21 | 23 | 26 | <b>42</b>                  | 34 | 36 | 39 | 42 | 45 | 48 | 51 | 55 |
| <b>18</b>                  | 13 | 15 | 16 | 18 | 20 | 22 | 24 | 27 | <b>43</b>                  | 35 | 37 | 40 | 43 | 46 | 49 | 52 | 56 |
| <b>19</b>                  | 14 | 15 | 17 | 19 | 21 | 24 | 26 | 28 | <b>44</b>                  | 36 | 38 | 41 | 44 | 47 | 50 | 53 | 57 |
| <b>20</b>                  | 15 | 16 | 18 | 20 | 22 | 25 | 27 | 29 | <b>45</b>                  | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 58 |
| <b>21</b>                  | 16 | 17 | 19 | 21 | 23 | 26 | 28 | 31 | <b>46</b>                  | 37 | 40 | 43 | 46 | 49 | 52 | 55 | 59 |
| <b>22</b>                  | 16 | 18 | 20 | 22 | 24 | 27 | 29 | 32 | <b>47</b>                  | 38 | 41 | 44 | 47 | 50 | 53 | 56 | 60 |
| <b>23</b>                  | 17 | 19 | 21 | 23 | 26 | 28 | 31 | 33 | <b>48</b>                  | 39 | 42 | 45 | 48 | 51 | 54 | 57 | 61 |
| <b>24</b>                  | 18 | 20 | 22 | 24 | 27 | 29 | 32 | 34 | <b>49</b>                  | 40 | 43 | 46 | 49 | 52 | 55 | 58 | 62 |
| <b>25</b>                  | 18 | 21 | 23 | 25 | 28 | 30 | 33 | 36 | <b>50</b>                  | 41 | 44 | 47 | 50 | 53 | 56 | 59 | 62 |

OCCUPATIONAL ADJUSTMENT TABLE

| Standard Rating Percent |    |    |    |    |    |    |    |    | Standard Rating Percent |     |     |     |     |     |     |     |     |
|-------------------------|----|----|----|----|----|----|----|----|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                         | C  | D  | E  | F  | G  | H  | I  | J  |                         | C   | D   | E   | F   | G   | H   | I   | J   |
| <b>51</b>               | 42 | 45 | 48 | 51 | 54 | 57 | 60 | 64 | <b>76</b>               | 68  | 70  | 73  | 76  | 78  | 80  | 82  | 84  |
| <b>52</b>               | 43 | 46 | 49 | 52 | 55 | 58 | 61 | 65 | <b>77</b>               | 69  | 71  | 74  | 77  | 79  | 81  | 83  | 85  |
| <b>53</b>               | 44 | 47 | 50 | 53 | 56 | 59 | 62 | 65 | <b>78</b>               | 70  | 72  | 75  | 78  | 80  | 82  | 84  | 86  |
| <b>54</b>               | 45 | 48 | 51 | 54 | 57 | 60 | 63 | 66 | <b>79</b>               | 71  | 74  | 76  | 79  | 81  | 83  | 84  | 86  |
| <b>55</b>               | 46 | 49 | 52 | 55 | 58 | 61 | 64 | 67 | <b>80</b>               | 72  | 75  | 77  | 80  | 82  | 83  | 85  | 87  |
| <b>56</b>               | 47 | 50 | 53 | 56 | 59 | 62 | 65 | 68 | <b>81</b>               | 73  | 76  | 78  | 81  | 83  | 84  | 86  | 88  |
| <b>57</b>               | 48 | 51 | 54 | 57 | 60 | 63 | 66 | 69 | <b>82</b>               | 74  | 77  | 79  | 82  | 84  | 85  | 87  | 88  |
| <b>58</b>               | 49 | 52 | 55 | 58 | 61 | 64 | 67 | 70 | <b>83</b>               | 76  | 78  | 81  | 83  | 84  | 86  | 87  | 89  |
| <b>59</b>               | 50 | 53 | 56 | 59 | 62 | 65 | 68 | 71 | <b>84</b>               | 77  | 79  | 82  | 84  | 85  | 87  | 88  | 90  |
| <b>60</b>               | 51 | 54 | 57 | 60 | 63 | 66 | 69 | 72 | <b>85</b>               | 78  | 81  | 83  | 85  | 86  | 88  | 89  | 90  |
| <b>61</b>               | 52 | 55 | 58 | 61 | 64 | 67 | 69 | 72 | <b>86</b>               | 79  | 82  | 84  | 86  | 87  | 89  | 90  | 91  |
| <b>62</b>               | 53 | 56 | 59 | 62 | 65 | 68 | 70 | 73 | <b>87</b>               | 81  | 83  | 85  | 87  | 88  | 89  | 90  | 92  |
| <b>63</b>               | 54 | 57 | 60 | 63 | 66 | 69 | 71 | 74 | <b>88</b>               | 82  | 84  | 86  | 88  | 89  | 90  | 91  | 92  |
| <b>64</b>               | 55 | 58 | 61 | 64 | 67 | 69 | 72 | 75 | <b>89</b>               | 84  | 85  | 87  | 89  | 90  | 91  | 92  | 93  |
| <b>65</b>               | 56 | 59 | 62 | 65 | 68 | 70 | 73 | 76 | <b>90</b>               | 85  | 87  | 88  | 90  | 91  | 92  | 93  | 94  |
| <b>66</b>               | 57 | 60 | 63 | 66 | 69 | 71 | 74 | 77 | <b>91</b>               | 86  | 88  | 89  | 91  | 92  | 93  | 93  | 94  |
| <b>67</b>               | 58 | 61 | 64 | 67 | 70 | 72 | 75 | 77 | <b>92</b>               | 88  | 89  | 91  | 92  | 93  | 93  | 94  | 95  |
| <b>68</b>               | 59 | 62 | 65 | 68 | 71 | 73 | 76 | 78 | <b>93</b>               | 89  | 91  | 92  | 93  | 94  | 94  | 95  | 96  |
| <b>69</b>               | 60 | 63 | 66 | 69 | 71 | 74 | 76 | 79 | <b>94</b>               | 91  | 92  | 93  | 94  | 95  | 95  | 96  | 96  |
| <b>70</b>               | 61 | 64 | 67 | 70 | 72 | 75 | 77 | 80 | <b>95</b>               | 93  | 93  | 94  | 95  | 96  | 96  | 97  | 97  |
| <b>71</b>               | 62 | 65 | 68 | 71 | 73 | 76 | 78 | 80 | <b>96</b>               | 94  | 94  | 95  | 96  | 96  | 97  | 98  | 98  |
| <b>72</b>               | 63 | 66 | 69 | 72 | 74 | 77 | 79 | 81 | <b>97</b>               | 95  | 96  | 96  | 97  | 97  | 98  | 98  | 98  |
| <b>73</b>               | 65 | 67 | 70 | 73 | 75 | 77 | 79 | 82 | <b>98</b>               | 97  | 97  | 98  | 98  | 98  | 98  | 98  | 99  |
| <b>74</b>               | 66 | 68 | 71 | 74 | 76 | 78 | 80 | 83 | <b>99</b>               | 98  | 99  | 99  | 99  | 99  | 99  | 100 | 100 |
| <b>75</b>               | 67 | 69 | 72 | 75 | 77 | 79 | 81 | 83 | <b>100</b>              | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

## **SECTION 6 - AGE ADJUSTMENT**

Use this table to modify the rating for age.

Locate the row on which the rating (already adjusted for earning capacity and occupation) appears, and the column headed by the age at time of injury. Record the number appearing at the intersection of the row and column. This is the rating adjusted for earning capacity, occupation and age.

| <b>Rating</b> | <b>AGE AT TIME OF INJURY</b> |                |                |                |                |                |                |                |                |                    |
|---------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
|               | <b>21 and under</b>          | <b>22 - 26</b> | <b>27 - 31</b> | <b>32 - 36</b> | <b>37 - 41</b> | <b>42 - 46</b> | <b>47 - 51</b> | <b>52 - 56</b> | <b>57 - 61</b> | <b>62 and over</b> |
| <b>1</b>      | 1                            | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1                  |
| <b>2</b>      | 2                            | 2              | 2              | 2              | 2              | 2              | 2              | 3              | 3              | 3                  |
| <b>3</b>      | 2                            | 2              | 3              | 3              | 3              | 3              | 3              | 4              | 4              | 4                  |
| <b>4</b>      | 3                            | 3              | 3              | 4              | 4              | 4              | 5              | 5              | 5              | 6                  |
| <b>5</b>      | 4                            | 4              | 4              | 5              | 5              | 5              | 6              | 6              | 6              | 7                  |
| <b>6</b>      | 5                            | 5              | 5              | 6              | 6              | 6              | 7              | 7              | 8              | 8                  |
| <b>7</b>      | 5                            | 6              | 6              | 7              | 7              | 8              | 8              | 9              | 9              | 10                 |
| <b>8</b>      | 6                            | 6              | 7              | 7              | 8              | 9              | 9              | 10             | 10             | 11                 |
| <b>9</b>      | 7                            | 7              | 8              | 8              | 9              | 10             | 10             | 11             | 12             | 12                 |
| <b>10</b>     | 8                            | 8              | 9              | 9              | 10             | 11             | 11             | 12             | 13             | 13                 |
| <b>11</b>     | 8                            | 9              | 10             | 10             | 11             | 12             | 13             | 13             | 14             | 15                 |
| <b>12</b>     | 9                            | 10             | 10             | 11             | 12             | 13             | 14             | 15             | 15             | 16                 |
| <b>13</b>     | 10                           | 11             | 11             | 12             | 13             | 14             | 15             | 16             | 16             | 17                 |
| <b>14</b>     | 11                           | 11             | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19                 |
| <b>15</b>     | 12                           | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             | 20                 |
| <b>16</b>     | 12                           | 13             | 14             | 15             | 16             | 17             | 18             | 19             | 20             | 21                 |
| <b>17</b>     | 13                           | 14             | 15             | 16             | 17             | 18             | 19             | 20             | 21             | 22                 |
| <b>18</b>     | 14                           | 15             | 16             | 17             | 18             | 19             | 20             | 21             | 23             | 24                 |
| <b>19</b>     | 15                           | 16             | 17             | 18             | 19             | 20             | 22             | 23             | 24             | 25                 |
| <b>20</b>     | 16                           | 17             | 18             | 19             | 20             | 21             | 23             | 24             | 25             | 26                 |
| <b>21</b>     | 17                           | 18             | 19             | 20             | 21             | 22             | 24             | 25             | 26             | 27                 |
| <b>22</b>     | 17                           | 18             | 20             | 21             | 22             | 23             | 25             | 26             | 28             | 29                 |
| <b>23</b>     | 18                           | 19             | 20             | 22             | 23             | 24             | 26             | 27             | 29             | 30                 |
| <b>24</b>     | 19                           | 20             | 21             | 23             | 24             | 25             | 27             | 28             | 30             | 31                 |
| <b>25</b>     | 20                           | 21             | 22             | 24             | 25             | 27             | 28             | 29             | 31             | 32                 |

| <b>Rating</b> | <b>AGE AT TIME OF INJURY</b> |                |                |                |                |                |                |                |                |                    |
|---------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
|               | <b>21 and under</b>          | <b>22 - 26</b> | <b>27 - 31</b> | <b>32 - 36</b> | <b>37 - 41</b> | <b>42 - 46</b> | <b>47 - 51</b> | <b>52 - 56</b> | <b>57 - 61</b> | <b>62 and over</b> |
| <b>26</b>     | 21                           | 22             | 23             | 25             | 26             | 28             | 29             | 31             | 32             | 33                 |
| <b>27</b>     | 22                           | 23             | 24             | 26             | 27             | 29             | 30             | 32             | 33             | 35                 |
| <b>28</b>     | 23                           | 24             | 25             | 27             | 28             | 30             | 31             | 33             | 34             | 36                 |
| <b>29</b>     | 24                           | 25             | 26             | 28             | 29             | 31             | 32             | 34             | 36             | 37                 |
| <b>30</b>     | 24                           | 25             | 27             | 28             | 30             | 32             | 33             | 35             | 37             | 38                 |
| <b>31</b>     | 25                           | 26             | 28             | 30             | 31             | 33             | 35             | 36             | 38             | 39                 |
| <b>32</b>     | 26                           | 27             | 29             | 31             | 32             | 34             | 36             | 37             | 39             | 40                 |
| <b>33</b>     | 27                           | 28             | 30             | 32             | 33             | 35             | 37             | 38             | 40             | 42                 |
| <b>34</b>     | 28                           | 29             | 31             | 33             | 34             | 36             | 38             | 39             | 41             | 43                 |
| <b>35</b>     | 29                           | 30             | 32             | 34             | 35             | 37             | 39             | 41             | 42             | 44                 |
| <b>36</b>     | 30                           | 31             | 33             | 35             | 36             | 38             | 40             | 42             | 43             | 45                 |
| <b>37</b>     | 31                           | 32             | 34             | 36             | 37             | 39             | 41             | 43             | 44             | 46                 |
| <b>38</b>     | 32                           | 33             | 35             | 37             | 38             | 40             | 42             | 44             | 46             | 47                 |
| <b>39</b>     | 33                           | 34             | 36             | 38             | 39             | 41             | 43             | 45             | 47             | 48                 |
| <b>40</b>     | 34                           | 35             | 37             | 39             | 40             | 42             | 44             | 46             | 48             | 50                 |
| <b>41</b>     | 35                           | 36             | 38             | 40             | 41             | 43             | 45             | 47             | 49             | 51                 |
| <b>42</b>     | 36                           | 37             | 39             | 41             | 42             | 44             | 46             | 48             | 50             | 52                 |
| <b>43</b>     | 36                           | 37             | 39             | 41             | 43             | 45             | 47             | 49             | 51             | 53                 |
| <b>44</b>     | 37                           | 38             | 40             | 42             | 44             | 46             | 48             | 50             | 52             | 54                 |
| <b>45</b>     | 38                           | 39             | 41             | 43             | 45             | 47             | 49             | 51             | 53             | 55                 |
| <b>46</b>     | 39                           | 40             | 42             | 44             | 46             | 48             | 50             | 52             | 54             | 56                 |
| <b>47</b>     | 40                           | 41             | 43             | 45             | 47             | 49             | 51             | 53             | 55             | 57                 |
| <b>48</b>     | 41                           | 42             | 44             | 46             | 48             | 50             | 52             | 54             | 56             | 58                 |
| <b>49</b>     | 42                           | 43             | 45             | 47             | 49             | 51             | 53             | 55             | 57             | 59                 |
| <b>50</b>     | 43                           | 44             | 46             | 48             | 50             | 52             | 54             | 56             | 58             | 60                 |

| <b>Rating</b> | <b>AGE AT TIME OF INJURY</b> |                |                |                |                |                |                |                |                |                    |
|---------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
|               | <b>21 and under</b>          | <b>22 - 26</b> | <b>27 - 31</b> | <b>32 - 36</b> | <b>37 - 41</b> | <b>42 - 46</b> | <b>47 - 51</b> | <b>52 - 56</b> | <b>57 - 61</b> | <b>62 and over</b> |
| <b>51</b>     | 44                           | 45             | 47             | 49             | 51             | 53             | 55             | 57             | 59             | 61                 |
| <b>52</b>     | 45                           | 46             | 48             | 50             | 52             | 54             | 56             | 58             | 60             | 62                 |
| <b>53</b>     | 46                           | 47             | 49             | 51             | 53             | 55             | 57             | 59             | 61             | 63                 |
| <b>54</b>     | 47                           | 48             | 50             | 52             | 54             | 56             | 58             | 60             | 62             | 64                 |
| <b>55</b>     | 48                           | 49             | 51             | 53             | 55             | 57             | 59             | 61             | 63             | 65                 |
| <b>56</b>     | 49                           | 50             | 52             | 54             | 56             | 58             | 60             | 62             | 64             | 66                 |
| <b>57</b>     | 50                           | 51             | 53             | 55             | 57             | 59             | 61             | 63             | 65             | 67                 |
| <b>58</b>     | 51                           | 53             | 55             | 57             | 58             | 60             | 62             | 64             | 66             | 68                 |
| <b>59</b>     | 52                           | 54             | 56             | 58             | 59             | 61             | 63             | 65             | 67             | 69                 |
| <b>60</b>     | 53                           | 55             | 57             | 59             | 60             | 62             | 64             | 66             | 68             | 70                 |
| <b>61</b>     | 54                           | 56             | 58             | 60             | 61             | 63             | 65             | 67             | 69             | 71                 |
| <b>62</b>     | 55                           | 57             | 59             | 61             | 62             | 64             | 66             | 68             | 69             | 71                 |
| <b>63</b>     | 57                           | 58             | 60             | 62             | 63             | 65             | 67             | 69             | 70             | 72                 |
| <b>64</b>     | 58                           | 59             | 61             | 63             | 64             | 66             | 68             | 70             | 71             | 73                 |
| <b>65</b>     | 59                           | 60             | 62             | 64             | 65             | 67             | 69             | 71             | 72             | 74                 |
| <b>66</b>     | 60                           | 61             | 63             | 65             | 66             | 68             | 70             | 72             | 73             | 75                 |
| <b>67</b>     | 61                           | 62             | 64             | 66             | 67             | 69             | 70             | 72             | 74             | 76                 |
| <b>68</b>     | 62                           | 63             | 65             | 67             | 68             | 70             | 71             | 73             | 75             | 77                 |
| <b>69</b>     | 63                           | 64             | 66             | 68             | 69             | 71             | 72             | 74             | 76             | 78                 |
| <b>70</b>     | 64                           | 65             | 67             | 69             | 70             | 72             | 73             | 75             | 76             | 78                 |
| <b>71</b>     | 65                           | 66             | 68             | 70             | 71             | 73             | 74             | 76             | 77             | 79                 |
| <b>72</b>     | 66                           | 67             | 69             | 71             | 72             | 74             | 75             | 77             | 78             | 80                 |
| <b>73</b>     | 68                           | 69             | 70             | 72             | 73             | 75             | 76             | 78             | 79             | 81                 |
| <b>74</b>     | 69                           | 70             | 71             | 73             | 74             | 76             | 77             | 79             | 80             | 82                 |
| <b>75</b>     | 70                           | 71             | 72             | 74             | 75             | 77             | 78             | 80             | 81             | 83                 |



| <b>Rating</b> | <b>AGE AT TIME OF INJURY</b> |                |                |                |                |                |                |                |                |                    |
|---------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
|               | <b>21 and under</b>          | <b>22 - 26</b> | <b>27 - 31</b> | <b>32 - 36</b> | <b>37 - 41</b> | <b>42 - 46</b> | <b>47 - 51</b> | <b>52 - 56</b> | <b>57 - 61</b> | <b>62 and over</b> |
| <b>76</b>     | 71                           | 72             | 73             | 75             | 76             | 78             | 79             | 80             | 82             | 83                 |
| <b>77</b>     | 72                           | 73             | 74             | 76             | 77             | 79             | 80             | 81             | 82             | 84                 |
| <b>78</b>     | 73                           | 74             | 75             | 77             | 78             | 80             | 81             | 82             | 83             | 85                 |
| <b>79</b>     | 74                           | 75             | 76             | 78             | 79             | 81             | 82             | 83             | 84             | 86                 |
| <b>80</b>     | 76                           | 77             | 78             | 79             | 80             | 81             | 82             | 84             | 85             | 86                 |
| <b>81</b>     | 77                           | 78             | 79             | 80             | 81             | 82             | 83             | 85             | 86             | 87                 |
| <b>82</b>     | 78                           | 79             | 80             | 81             | 82             | 83             | 84             | 86             | 87             | 88                 |
| <b>83</b>     | 79                           | 80             | 81             | 82             | 83             | 84             | 85             | 86             | 87             | 89                 |
| <b>84</b>     | 80                           | 81             | 82             | 83             | 84             | 85             | 86             | 87             | 88             | 89                 |
| <b>85</b>     | 81                           | 82             | 83             | 84             | 85             | 86             | 87             | 88             | 89             | 90                 |
| <b>86</b>     | 83                           | 83             | 84             | 85             | 86             | 87             | 88             | 89             | 90             | 91                 |
| <b>87</b>     | 84                           | 85             | 85             | 86             | 87             | 88             | 89             | 90             | 91             | 92                 |
| <b>88</b>     | 85                           | 86             | 86             | 87             | 88             | 89             | 90             | 91             | 91             | 92                 |
| <b>89</b>     | 86                           | 87             | 87             | 88             | 89             | 90             | 91             | 91             | 92             | 93                 |
| <b>90</b>     | 88                           | 88             | 89             | 89             | 90             | 91             | 91             | 92             | 93             | 93                 |
| <b>91</b>     | 89                           | 89             | 90             | 90             | 91             | 92             | 92             | 93             | 94             | 94                 |
| <b>92</b>     | 90                           | 90             | 91             | 92             | 92             | 93             | 93             | 94             | 94             | 95                 |
| <b>93</b>     | 91                           | 92             | 92             | 93             | 93             | 94             | 94             | 95             | 95             | 96                 |
| <b>94</b>     | 92                           | 93             | 93             | 94             | 94             | 95             | 95             | 95             | 96             | 96                 |
| <b>95</b>     | 94                           | 94             | 94             | 95             | 95             | 96             | 96             | 96             | 97             | 97                 |
| <b>96</b>     | 95                           | 95             | 95             | 96             | 96             | 96             | 97             | 97             | 97             | 98                 |
| <b>97</b>     | 96                           | 96             | 97             | 97             | 97             | 97             | 97             | 98             | 98             | 98                 |
| <b>98</b>     | 97                           | 98             | 98             | 98             | 98             | 98             | 98             | 98             | 99             | 99                 |
| <b>99</b>     | 99                           | 99             | 99             | 99             | 99             | 99             | 99             | 99             | 99             | 99                 |
| <b>100</b>    | 100                          | 100            | 100            | 100            | 100            | 100            | 100            | 100            | 100            | 100                |

## **SECTION 7 – EXAMPLES**

The examples in this section illustrate all the basic components of disability rating including converting AMA scales, adjusting for diminished future earning capacity, occupation and age.

### Example A – Multiple impairments within a single extremity

A 30-year-old stevedore injures his right arm resulting in the following impairment percentages/ratings:

Limited motion of index finger = 50% Digit impairment  
Limited motion of ring finger = 80% Digit impairment  
Limited motion of shoulder = 20% Upper extremity (UE)  
Shoulder instability = 12% UE

1. Follow AMA protocols<sup>1</sup> for combining individual finger impairments into one overall hand impairment. The hand impairment for this example is 18%.

2. Convert hand impairment<sup>2</sup> to whole person scale.

$$18\% \text{ Hand impairment} \times .9 = 16\% \text{ UE}$$

$$16\% \text{ UE} \times .6 = 10\% \text{ Whole person impairment (WPI)}$$

3. Combine<sup>3</sup> shoulder impairments.

$$20\% \text{ UE} \text{ C } 12\% \text{ UE} = 30\% \text{ UE}$$

4. Convert overall shoulder impairment to whole person scale

$$30\% \text{ UE} \times .6 = 18\% \text{ WPI}$$

5. Apply earning capacity, occupation and age adjustments<sup>4</sup> to hand and shoulder ratings:

$$\text{Hand: } 16.05.01.00 - 10 - [1]11 - 351G - 13 - 11 \text{ PD}$$

$$\text{Shoulder: } 16.02.02.00 - 18 - [7]24 - 351G - 27 - 24 \text{ PD}$$

6. Combine adjusted ratings for hand and shoulder to obtain final disability.

$$24\% \text{ PD} \text{ C } 11\% \text{ PD} = 32\% \text{ PD}$$

The final overall PD rating for this example is 32%.

### Example B – Applying the single extremity maximum

A 30-year-old stevedore sustains an injury to his left leg resulting in the following impairment percentages/ratings:

Amputation of left leg below knee = 80% LE  
Limited motion of left knee = 35% LE  
Pain in stump is substantially aggravated by performing ADL's = 3% add-on<sup>5</sup>

<sup>1</sup> See Chapter 16 of the AMA Guides, 5<sup>th</sup> edition for protocols.

<sup>2</sup> See AMA Guides, 5<sup>th</sup> edition, pages 438-439, for upper extremity conversion factors.

<sup>3</sup> The symbol used to represent the operation of combining is "C". Use the Combined Values Chart on page 8-2 of the Schedule to combine ratings.

<sup>4</sup> Rating adjustments and formulas are explained in Section 1 of this Schedule, ~~starting on page XX.~~

<sup>5</sup> See Section 1 of PDRS, ~~page XX,~~ for information regarding add-on's for pain.

1. Convert individual impairments<sup>6</sup> to the whole person scale.

Left leg amputation:  $80\% \text{ LE} \times .4 = 32\% \text{ WPI}$

Left knee motion:  $35\% \text{ LE} \times .4 = 14\% \text{ WPI}$

2. Apply 3% add-on for pain.

$32\% \text{ WPI} + 3\% \text{ WPI} = 35\% \text{ WPI}$

3. Apply earning capacity, occupation and age adjustments<sup>7</sup> to each whole person impairment.

L leg amp.:  $17.01.02.02 - 35 - [5]45 - 351G - 48 - 44 \text{ PD}$

L knee motion:  $17.05.04.00 - 14 - [2]16 - 351G - 18 - 16 \text{ PD}$

4. Combine<sup>8</sup> the adjusted impairments for the left leg.

$44\% \text{ PD } \mathbf{C} \text{ } 16\% \text{ PD} = 53\% \text{ PD}$

5. Calculate the maximum value for a single leg adjusted for earning capacity, age and occupation. The maximum rating for a leg before adjustments is 40%.

$17.01.02.01 - 40 - [5]51 - 351G - 54 - 50 \text{ PD}$

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<sup>6</sup> See AMA Guides, 5<sup>th</sup> edition, page 527, for lower extremity conversion factors.

<sup>7</sup> Rating adjustments and formulas are explained in Section 1 of this Schedule, ~~starting on page XX.~~

<sup>8</sup> The symbol used to represent the operation of combining is "C". Use the Combined Values Chart on page 8-2 of the Schedule to combine ratings.

6. Compare the results of step 4 and 5 above. Choose the lower as the final value. The correct disability rating for the left leg is 50% PD.

### Example C – Multiple impairments to different regions of body

A 30-year-old stevedore sustains injuries to his right arm, low back and legs resulting in the following ~~disability~~ impairment ratings.

Herniated lumbar disk (DRE Category 3) = 10% WPI

Limited motion of right index finger = 50% Digit impairment

Limited motion of right ring finger = 80% Digit impairment

Limited motion of right shoulder = 20% Upper extremity (UE)

Right shoulder instability = 12% UE

Amputation of left ~~foot~~ leg two inches below knee = 80% LE

Limited motion of left knee = 35% LE

Pain in stump is substantially aggravated by performing ADL's = 3% add-on<sup>9</sup>

Limited motion of right knee = 8% LE

1. Calculate disability rating for the back by adjusting the back impairment rating for earning capacity, occupation and age.

$15.03.01.00 - 10 - [5]13 - 351G - 15 - 13 \text{ PD}$

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<sup>9</sup> See Section 1 of PDRS, ~~page XX,~~ for information regarding add-on's for pain.

2. Calculate disability rating for right arm in accordance with Example A above. The overall disability rating for the arm is 39% PD after adjustment for earning capacity, occupation and age.
3. Calculate the disability rating for the left leg in accordance with Example B above. The overall disability rating for the left leg is 61% PD after adjustment for earning capacity, occupation and age.
4. Calculate disability rating for the right leg as follows:

- a. Convert the lower extremity impairment rating for the right knee to whole person impairment.

$$8\% \text{ LE} \times .4 = 3\% \text{ WPI}$$

- b. Adjust the right knee impairment rating for earning capacity, occupation and age.

$$17.05.04.00 - 3 - [2]4 - 351G - 5 - 4 \text{ PD}$$

5. Combine the ratings for the right arm, back, and each leg in the order from the largest to the smallest. The final overall PD rating for this example is 71%.

$$50\% \text{ PD (left leg)} \text{ C } 32\% \text{ PD (right arm)} = 66\% \text{ PD}$$

$$66\% \text{ PD C } 13\% \text{ PD (back)} = 70\% \text{ PD}$$

$$70\% \text{ PD C } 4\% \text{ PD (right leg)} = 71\% \text{ PD}$$

## SECTION 8 - COMBINED VALUES CHART

Use this chart to combine two or more impairments, or two or more disabilities. When combining groups of three or more values, always combine the larger two first, and then successively combine the result with the next smaller until all values are combined.



**COMBINED VALUES CHART (CON'T)**

|    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 51 | 51 | 52  | 52  | 53 | 53 | 54 | 54 | 55 | 55 | 56 | 56 | 57 | 57 | 58 | 58 | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 |    |    |
| 52 | 52 | 53  | 53  | 54 | 54 | 55 | 55 | 56 | 56 | 57 | 57 | 58 | 58 | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |
| 53 | 53 | 54  | 54  | 55 | 55 | 56 | 56 | 57 | 57 | 58 | 58 | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |
| 54 | 54 | 55  | 55  | 56 | 56 | 57 | 57 | 58 | 58 | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |
| 55 | 55 | 56  | 56  | 57 | 57 | 58 | 58 | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |
| 56 | 56 | 57  | 57  | 58 | 58 | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |
| 57 | 57 | 58  | 58  | 59 | 59 | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |
| 58 | 58 | 59  | 59  | 60 | 60 | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |
| 59 | 59 | 60  | 60  | 61 | 61 | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60 | 60 | 61  | 61  | 62 | 62 | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 61 | 61 | 62  | 62  | 63 | 63 | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 62 | 62 | 63  | 63  | 64 | 64 | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 63 | 63 | 64  | 64  | 65 | 65 | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 64 | 64 | 65  | 65  | 66 | 66 | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65 | 65 | 66  | 66  | 67 | 67 | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 66 | 66 | 67  | 67  | 68 | 68 | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 67 | 67 | 68  | 68  | 69 | 69 | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 68 | 68 | 69  | 69  | 70 | 70 | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 69 | 69 | 70  | 70  | 71 | 71 | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 70 | 70 | 71  | 71  | 72 | 72 | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 71 | 71 | 72  | 72  | 73 | 73 | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 72 | 72 | 73  | 73  | 74 | 74 | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 73 | 73 | 74  | 74  | 75 | 75 | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 74 | 74 | 75  | 75  | 76 | 76 | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 75 | 75 | 76  | 76  | 77 | 77 | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 76 | 76 | 77  | 77  | 78 | 78 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 77 | 77 | 78  | 78  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 78 | 78 | 79  | 79  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 79 | 79 | 80  | 80  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 80 | 80 | 81  | 81  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 81 | 81 | 82  | 82  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 82 | 82 | 83  | 83  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 83 | 83 | 84  | 84  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 84 | 84 | 85  | 85  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 85 | 85 | 86  | 86  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 86 | 86 | 87  | 87  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 87 | 87 | 88  | 88  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 88 | 88 | 89  | 89  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 89 | 89 | 90  | 90  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 90 | 90 | 91  | 91  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 91 | 91 | 92  | 92  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 92 | 92 | 93  | 93  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 93 | 93 | 94  | 94  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 94 | 94 | 95  | 95  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 95 | 95 | 96  | 96  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 96 | 96 | 97  | 97  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 97 | 97 | 98  | 98  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 98 | 98 | 99  | 99  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 99 | 99 | 100 | 100 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50



