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GOVERNOR OF CALIFORNIA

SCHEDULE FOR RATING PERMANENT DISABILITIES

UNDER THE PROVISIONS OF THE
LABOR CODE OF THE STATE OF CALIFORNIA

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**LABOR AND WORKFORCE DEVELOPMENT AGENCY
DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF WORKERS' COMPENSATION**

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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.

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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, 5th 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 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	1.1000
1.476	1.646	Two	1.1429
1.305	1.475	Three	1.1857
1.134	1.304	Four	1.2286
0.963	1.133	Five	1.2714
0.792	0.962	Six	1.3143
0.621	0.791	Seven	1.3571
0.450	0.620	Eight	1.4000

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.	61 – 70
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).	51 – 60
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).	41 – 50
		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.
		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).
		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).	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.
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).	0 Inadequate information. (c) Converting the GAF Score to a Whole Person Impairment
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	Locate the GAF score in the table below and read across to determine the corresponding whole person impairment (WPI) rating.

GAF	WPI	GAF	WPI	GAF	WPI	GAF	WPI
1	90	34	63	67	5	100	0
2	89	35	61	68	3		
3	89	36	59	69	2		
4	88	37	57	70	0		
5	87	38	55	71	0		
6	87	39	53	72	0		
7	86	40	51	73	0		
8	85	41	48	74	0		
9	84	42	46	75	0		
10	84	43	44	76	0		
11	83	44	42	77	0		
12	82	45	40	78	0		
13	82	46	38	79	0		
14	81	47	36	80	0		
15	80	48	34	81	0		
16	80	49	32	82	0		
17	79	50	30	83	0		
18	78	51	29	84	0		
19	78	52	27	85	0		
20	77	53	26	86	0		
21	76	54	24	87	0		
22	76	55	23	88	0		
23	75	56	21	89	0		
24	74	57	20	90	0		
25	73	58	18	91	0		
26	73	59	17	92	0		
27	72	60	15	93	0		
28	71	61	14	94	0		
29	71	62	12	95	0		
30	70	63	11	96	0		
31	69	64	9	97	0		
32	67	65	8	98	0		
33	65	66	6	99	0		

SECTION 2 – IMPAIRMENT NUMBER/EARNING CAPACITY ADJUSTMENT

<u>Category</u>	<u>Body Part/Function</u>	<u>Page</u>
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15	Spine	2-3
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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>#</u>	<u>Impairment</u>	<u>FEC</u>	<u>Rank</u>	<u>Impairment</u>	<u>FEC</u>	<u>Rank</u>	<u>Impairment</u>		
03 – CARDIOVASCULAR SYSTEM – HEART & AORTA									
03.01.00.00	5	Valvular Heart Disease		08.01.00.00	2	Disfigurement			
03.02.00.00	5	Coronary Heart Disease		08.02.00.00	2	Scars & Skin Grafts			
03.03.00.00	5	Congenital Heart Disease		08.03.00.00	2	Contact Dermatitis			
03.04.00.00	5	Cardiomyopathies		08.04.00.00	2	Latex Allergy			
03.05.00.00	5	Pericardial Heart Disease		08.05.00.00	2	Skin Cancer			
03.06.00.00	5	Arrhythmia		09 – HEMATOPOIETIC SYSTEM					
04 – CARDIOVASCULAR SYSTEM – SYSTEMIC & PULMONARY ARTERIES									
04.01.00.00	5	Hypertensive Cardiovascular Disease		10.01.00.00	2	Hematopoietic Impairment			
04.02.00.00	5	Aortic Disease		10 – ENDOCRINE SYSTEM					
04.03.01.00	5	Peripheral Vascular Disease, Upper Extremities		10.01.00.00	2	Diabetes Mellitus			
04.03.02.00	5	Peripheral Vascular Disease, Lower Extremities		11 – EAR, NOSE & THROAT					
04.04.00.00	7	Pulmonary Circulation Disease		11.01.01.00	8	Ear – Hearing Impairment			
05 – RESPIRATORY SYSTEM									
05.01.00.00	7	Asthma		11.01.02.00	8	Ear – Vestibular Disorder			
05.02.00.00	7	Respiratory Disorders		11.02.01.00	2	Face/cosmetic			
05.03.00.00	7	Cancer		11.02.02.00	2	Face/eye/cosmetic			
06 – DIGESTIVE SYSTEM									
06.01.00.00	6	Upper Digestive Tract		11.03.01.00	2	Nose/Throat/Related Structures – Respiration			
06.02.00.00	6	Colon, Rectum, Anus		11.03.02.00	2	Nose/Throat/Related Structures – Mastication & Deglutition			
06.03.00.00	6	Enterocutaneous Fistulas		11.03.03.00	2	Nose/Throat/Related Structures – Olfaction & Taste			
06.04.00.00	6	Liver/Biliary Tract		11.03.04.00	2	Nose/Throat/Related Structures – Voice & Speech			
06.05.00.00	6	Hernias		12 – VISUAL SYSTEM					
07 – URINARY & REPRODUCTIVE SYSTEMS									
07.01.00.00	2	Upper Urinary Tract		12.01.00.00	1	Visual Acuity			
07.02.00.00	2	Urinary Diversion		12.02.00.00	1	Visual Field			
07.03.00.00	2	Bladder		12.03.00.00	1	Visual System			
07.04.00.00	2	Urethra		13 – CENTRAL & PERIPHERAL NERVOUS SYSTEM					
07.05.00.00	2	Reproductive 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			

# Impairment	FEC	Rank	Impairment		FEC	Rank	Impairment
13.05.00.00	2	Language Disorder		14 – MENTAL & BEHAVIORIAL DISORDERS			
13.06.00.00	8	Behavioral/Emotional Disorder		14.01.00.00	8	Psychiatric – Mental and Behavioral	
13.07.01.00	2	Cranial Nerve – Olfactory		15 – SPINE			
13.07.02.00	1	Cranial Nerve – Optic					
13.07.03.00	2	Cranial Nerve – Oculomotor, Trochlear & Abducens		15.01.01.00	5	Cervical – Diagnosis-related Estimate (DRE)	
13.07.04.00	2	Cranial Nerve – Trigeminal		15.01.02.01	5	Cervical – Range of Motion (ROM) – Fracture	
13.07.05.00	2	Cranial Nerve – Facial		15.01.02.02	5	Cervical – Range of Motion – Soft Tissue Lesion	
13.07.06.01	8	Cranial Nerve – Vestibulocochlear – Vertigo		15.01.02.03	5	Cervical – Range of Motion – Spondylolysis, no operation	
13.07.06.02	8	Cranial Nerve – Vestibulocochlear – Tinnitus		15.01.02.04	5	Cervical – Range of Motion – Stenosis, with operation	
13.07.07.00	2	Cranial Nerve – Glossopharyngeal & Vagus		15.01.02.05	5	Cervical – Range of Motion – Nerve Root/Spinal Cord – Sensory	
13.07.08.00	2	Cranial Nerve – Spinal Accessory		15.01.02.06	5	Cervical – Range of Motion – Nerve Root/Spinal Cord – Motor	
13.07.09.00	2	Cranial Nerve – Hypoglossal		15.02.01.00	5	Thoracic – Diagnosis-related Estimate	
13.08.00.00	5	Station, Gait, Movement		15.02.02.01	5	Thoracic – Range of Motion – Fracture	
13.09.00.00	5	Upper Extremities		15.02.02.02	5	Thoracic – Range of Motion – Soft Tissue Lesion	
13.10.01.00	7	Spinal Cord Disorder – Respiratory		15.02.02.03	5	Thoracic – Range of Motion – Spondylolysis, no operation	
13.10.02.00	2	Spinal Cord Disorder – Urinary		15.02.02.04	5	Thoracic – Range of Motion – Stenosis, with operation	
13.10.03.00	2	Spinal Cord Disorder – Anorectal		15.02.02.05	5	Thoracic – Range of Motion – Nerve Root/Spinal Cord – Sensory	
13.10.04.00	2	Spinal Cord Disorder – Sexual		15.02.02.06	5	Thoracic – Range of Motion – Nerve Root/Spinal Cord – Motor	
13.11.01.01	5	Chronic Pain – Upper Extremities – Causalgia		15.03.01.00	5	Lumbar – Diagnosis-related Estimate	
13.11.01.02	5	Chronic Pain – Upper Extremities – Post-traumatic Neuralgia		15.03.02.01	5	Lumbar – Range of Motion – Fracture	
13.11.01.03	5	Chronic Pain – Upper Extremities – Reflex Sympathetic Dystrophy		15.03.02.02	5	Lumbar – Range of Motion – Soft Tissue Lesion	
13.11.02.01	5	Chronic Pain – Lower Extremities – Causalgia		15.03.02.03	5	Lumbar – Range of Motion – Spondylolysis, no operation	
13.11.02.02	5	Chronic Pain – Lower Extremities – Post-traumatic Neuralgia		15.03.02.04	5	Lumbar – Range of Motion – Stenosis, with operation	
13.11.02.03	5	Chronic Pain – Lower Extremities – Reflex Sympathetic Dystrophy		15.03.02.05	5	Lumbar – Range of Motion – Nerve Root/Spinal Cord – Sensory	
13.12.01.01	5	Peripheral Nerve System – Spine – Sensory		15.03.02.06	5	Lumbar – Range of Motion – Nerve Root/Spinal Cord – Motor	
13.12.01.02	5	Peripheral Nerve System – Spine – Motor		15.04.01.00	5	Corticospinal Tract – One Upper Extremity	
13.12.02.01	5	Peripheral Nerve System – Upper Extremity – Sensory		15.04.02.00	5	Corticospinal Tract – Two Upper Extremities	
13.12.02.02	5	Peripheral Nerve System – Upper Extremity – Motor		15.04.03.00	5	Corticospinal Tract – Station/Gait Disorder	
13.12.03.01	5	Peripheral Nerve System – Lower Extremity – Sensory					
13.12.03.02	5	Peripheral Nerve System – Lower Extremity – Motor					

# Impairment	FEC	Rank	Impairment		FEC	Rank	Impairment					
15.04.04.00	2		Corticospinal Tract – Bladder Impairment		16.06.01.03	1	Thumb – Sensory					
15.04.05.00	2		Corticospinal Tract – Anorectal Impairment		16.06.01.04	1	Thumb – Other					
15.04.06.00	2		Corticospinal Tract – Sexual Impairment		16.06.02.01	1	Index – Range of motion					
15.04.07.00	7		Corticospinal Tract – Respiratory Impairment		16.06.02.02	1	Index – Amputation					
15.05.01.00	5		Pelvic – Healed Fracture		16.06.02.03	1	Index – Sensory					
15.05.02.00	5		Pelvic – Healed Fracture with Displacement		16.06.02.04	1	Index – Other					
15.05.03.00	5		Pelvic – Healed Fracture with Deformity		16.06.03.01	1	Middle – Range of motion					
16 – UPPER EXTREMITIES												
16.01.01.01	5		Arm – Amputation/Deltoid insertion proximally		16.06.03.02	1	Middle – Amputation					
16.01.01.02	5		Arm – Amputation/Bicipital insertion proximally		16.06.03.03	1	Middle – Sensory					
16.01.01.03	5		Arm – Amputation/Wrist proximally		16.06.03.04	1	Middle – Other					
16.01.01.04	5		Arm – Amputation/All fingers at MP joint proximally		16.06.04.01	1	Ring – Range of motion					
16.01.02.01	5		Arm – Peripheral neuropathy – Brachial plexus		16.06.04.02	1	Ring – Amputation					
16.01.02.02	4		Arm – Peripheral neuropathy – Entrapment/compression – Carpal tunnel		16.06.04.03	1	Ring – Sensory					
16.01.02.03	5		Arm – Peripheral neuropathy – Entrapment/compression – Other		16.06.04.04	1	Ring – Other					
16.01.02.04	5		Arm – Peripheral neuropathy – CRPS I		16.06.05.01	1	Little – Range of motion					
16.01.02.05	5		Arm – Peripheral neuropathy – CRPS II		16.06.05.02	1	Little – Amputation					
16.01.03.00	5		Arm – Peripheral vascular		16.06.05.03	1	Little – Sensory					
16.01.04.00	4		Arm – Grip/pinch strength		16.06.05.04	1	Little – Other					
16.01.05.00	5		Arm – Other		17 – LOWER EXTREMITIES							
16.02.01.00	7		Shoulder – Range of motion		17.01.01.00	5	Leg – Limb Length					
16.02.02.00	7		Shoulder – Other		17.01.02.01	5	Leg – Amputation/Knee proximally					
16.03.01.00	2		Elbow/forearm – Range of motion		17.01.02.02	5	Leg – Amputation/MTP joint proximally					
16.03.02.00	2		Elbow/forearm – Other		17.01.03.00	5	Leg – Skin Loss					
16.04.01.00	4		Wrist – Range of motion		17.01.04.00	5	Leg – Peripheral Nerve					
16.04.02.00	4		Wrist – Other		17.01.05.00	5	Leg – Vascular					
16.05.01.00	1		Hand/multiple fingers – Range of motion		17.01.06.00	5	Leg – Causalgia/RSD					
16.05.02.00	1		Hand/multiple fingers – Amputation		17.01.07.00	5	Leg – Gait Derangement					
16.05.03.00	1		Hand/multiple fingers – Sensory		17.01.08.00	5	Leg – Other					
16.05.04.00	1		Hand/multiple fingers – Other		17.02.10.00	5	Pelvis – Diagnosis-based estimate (DBE) – Fracture					
16.06.01.01	1		Thumb – Range of motion		17.03.01.00	5	Hip – Muscle Atrophy					
16.06.01.02	1		Thumb – Amputation		17.03.02.00	5	Hip – Ankylosis					
					17.03.03.00	5	Hip – Arthritis					
					17.03.04.00	5	Hip – Range of Motion					

#	<u>FEC</u>	<u>Impairment</u>	#	<u>FEC</u>	<u>Impairment</u>
Impairment	Rank	Impairment	Impairment#	Rank	Impairment
17.03.05.00	5	Hip – Muscle Strength	17.07.04.00	2	Ankle – Range of Motion
17.03.06.00	5	Hip – Other	17.07.05.00	2	Ankle – Muscle Strength
17.03.10.01	5	Hip – Diagnosis-based Estimate – Hip/Replacement	17.07.06.00	2	Ankle – Other
17.03.10.02	5	Hip – Diagnosis-based Estimate – Hip/Femoral Neck Fracture	17.07.10.01	2	Ankle – Diagnosis-based Estimate – Ligament Instability
17.03.10.03	5	Hip – Diagnosis-based Estimate – Hip/Arthroplasty	17.07.10.02	2	Ankle – Diagnosis-based Estimate – Fracture
17.03.10.04	5	Hip – Diagnosis-based Estimate – Trochanteric bursitis	17.08.01.00	2	Foot – Muscle Atrophy
17.04.10.00	5	Femur – Diagnosis-based Estimate – Fracture	17.08.02.00	2	Foot – Ankylosis
17.05.01.00	2	Knee – Muscle Atrophy	17.08.03.00	2	Foot – Arthritis
17.05.02.00	2	Knee – Ankylosis	17.08.04.00	2	Foot – Range of Motion
17.05.03.00	2	Knee – Arthritis	17.08.05.00	2	Foot – Muscle Strength
17.05.04.00	2	Knee – Range of Motion	17.08.06.00	2	Foot – Other
17.05.05.00	2	Knee – Muscle Strength	17.08.10.01	2	Foot – Diagnosis-based Estimate – Hind Foot Fracture
17.05.06.00	2	Knee – Other	17.08.10.02	2	Foot – Diagnosis-based Estimate – Loss of Tibia
17.05.10.01	2	Knee – Diagnosis-based Estimate – Subluxation/dislocation	17.08.10.03	2	Foot – Diagnosis-based Estimate – Intra-articular Fracture
17.05.10.02	2	Knee – Diagnosis-based Estimate – Fracture	17.08.10.04	2	Foot – Diagnosis-based Estimate – Calvus
17.05.10.03	2	Knee – Diagnosis-based Estimate – Patellectomy	17.08.10.05	2	Foot – Diagnosis-based Estimate – Rocker Bottom
17.05.10.04	2	Knee – Diagnosis-based Estimate – Meniscectomy	17.08.10.06	2	Foot – Diagnosis-based Estimate – Avascular Necrosis
17.05.10.05	2	Knee – Diagnosis-based Estimate – Cruciate/collateral Ligament	17.08.10.07	2	Foot – Diagnosis-based Estimate – Metatarsal fracture
17.05.10.06	2	Knee – Diagnosis-based Estimate – Plateau Fracture	17.09.01.00	5	Toes – Muscle Atrophy
17.05.10.07	2	Knee – Diagnosis-based Estimate – Supra/Intercondylar Fracture	17.09.02.00	5	Toes – Ankylosis
17.05.10.08	2	Knee – Diagnosis-based Estimate – Total Replacement	17.09.03.00	5	Toes – Arthritis
17.05.10.09	2	Knee – Diagnosis-based Estimate – Proximal Tibial osteotomy	17.09.04.00	5	Toes – Range of Motion
17.06.10.00	5	Tibia/fibula – Diagnosis-based Estimate – fracture	17.09.05.00	5	Toes – Muscle Strength
17.07.01.00	2	Ankle – Muscle Atrophy	17.09.06.00	5	Toes – Amputation
17.07.02.00	2	Ankle – Ankylosis	17.09.07.00	5	Toes – Other
17.07.03.00	2	Ankle – Arthritis	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																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
One	1	2	3	4	6	7	8	9	10	11	12	13	14	15	17	18	19	20	21	22
Two	1	2	3	5	6	7	8	9	10	11	13	14	15	16	17	18	19	21	22	23
Three	1	2	4	5	6	7	8	9	11	12	13	14	15	17	18	19	20	21	23	24
Four	1	2	4	5	6	7	9	10	11	12	14	15	16	17	18	20	21	22	23	25
Five	1	3	4	5	6	8	9	10	11	13	14	15	17	18	19	20	22	23	24	25
Six	1	3	4	5	7	8	9	11	12	13	14	16	17	18	20	21	22	24	25	26
Seven	1	3	4	5	7	8	10	11	12	14	15	16	18	19	20	22	23	24	26	27
Eight	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																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
One	23	24	25	26	28	29	30	31	32	33	34	35	36	37	39	40	41	42	43	44
Two	24	25	26	27	29	30	31	32	33	34	35	37	38	39	40	41	42	43	45	46
Three	25	26	27	28	30	31	32	33	34	36	37	38	39	40	42	43	44	45	46	47
Four	26	27	28	29	31	32	33	34	36	37	38	39	41	42	43	44	45	47	48	49
Five	27	28	29	31	32	33	34	36	37	38	39	41	42	43	45	46	47	48	50	51
Six	28	29	30	32	33	34	35	37	38	39	41	42	43	45	46	47	49	50	51	53
Seven	29	30	31	33	34	35	37	38	39	41	42	43	45	46	48	49	50	52	53	54
Eight	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
<i>One</i>	45	46	47	48	50	51	52	53	54	55	56	57	58	59	61	62	63	64	65	66
<i>Two</i>	47	48	49	50	51	53	54	55	56	57	58	59	61	62	63	64	65	66	67	69
<i>Three</i>	49	50	51	52	53	55	56	57	58	59	60	62	63	64	65	66	68	69	70	71
<i>Four</i>	50	52	53	54	55	57	58	59	60	61	63	64	65	66	68	69	70	71	72	74
<i>Five</i>	52	53	55	56	57	58	60	61	62	64	65	66	67	69	70	71	72	74	75	76
<i>Six</i>	54	55	57	58	59	60	62	63	64	66	67	68	70	71	72	74	75	76	78	79
<i>Seven</i>	56	57	58	60	61	62	64	65	67	68	69	71	72	73	75	76	77	79	80	81
<i>Eight</i>	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
<i>One</i>	67	68	69	70	72	73	74	75	76	77	78	79	80	81	83	84	85	86	87	88
<i>Two</i>	70	71	72	73	74	75	77	78	79	80	81	82	83	85	86	87	88	89	90	91
<i>Three</i>	72	74	75	76	77	78	79	81	82	83	84	85	87	88	89	90	91	92	94	95
<i>Four</i>	75	76	77	79	80	81	82	84	85	86	87	88	90	91	92	93	95	96	97	98
<i>Five</i>	78	79	80	81	83	84	85	86	88	89	90	92	93	94	95	97	98	99	100	100
<i>Six</i>	80	81	83	84	85	87	88	89	91	92	93	95	96	97	99	100	100	100	100	100
<i>Seven</i>	83	84	86	87	88	90	91	92	94	95	96	98	99	100	100	100	100	100	100	100
<i>Eight</i>	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
<i>One</i>	89	90	91	92	94	95	96	97	98	99	100	100	100	100	100	100	100	100	100	100
<i>Two</i>	93	94	95	96	97	98	99	100	100	100	100	100	100	100	100	100	100	100	100	100
<i>Three</i>	96	97	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<i>Four</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<i>Five</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<i>Six</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<i>Seven</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<i>Eight</i>	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	ABSTRACTOR	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 COMMUNICATIONS	any industry
310	ACUPRESSURIST	medical ser.	110	APPEALS REFEREE	government ser.
211	ADDRESSING MACHINE OPERATOR	clerical	111	APPOINTMENT CLERK	clerical
111	ADMINISTRATIVE ANALYST	any industry	212	APPRAISER, ART	any industry
211	ADMINISTRATIVE CLERK	clerical	212	APPRAISER, BUSINESS EQPT.	any industry
212	ADMINISTRATOR, HEALTH CARE FACILITY	medical ser.	213	APPRAISER, REAL ESTATE	real estate
111	ADMISSIONS EVALUATOR	education	330	ARBOR PRESS OPERATOR	any industry
212	AIR ANALYST	profess. & kin.	370	ARC CUTTER	welding
481	AIR CONDITIONING INSTALLER SERV., WINDOW UNIT	construction	212	ARCHITECT	profess. & kin.
480	AIR HAMMER OPERATOR	construction	111	ARCHIVIST	profess. & kin.
212	AIR TRAFFIC CONTROL SPECIALIST, TOWER	government ser.	320	ARMATURE BANDER	any industry
380	AIRCRAFT BODY REPAIRER	air trans.	350	ARMORED CAR DRIVER	business ser.
380	AIRCRAFT BONDED STRUCTURES REPAIRER	aircraft mfg.	390	ARMORED CAR GUARD	business ser.
460	AIRCRAFT SERVICE WORKER	air trans.	111	ART DIRECTOR	motion picture
341	AIRCRAFT SERVICE ATTENDANT	air trans.	221	ARTIFICIAL FLOWER MAKER	button & notion
380	AIRFRAME AND POWER PLANT MECHANIC	aircraft mfg.	220	ARTIFICIAL PLASTIC EYE MAKER	optical goods
213	AIRLINE TRANSPORTATION AGENT	air trans.	480	ASPHALT RAKER	construction
213	AIRPLANE INSPECTOR	air trans.	351	ASPHALT SURFACE HEATER OPERATOR	construction
250	AIRPLANE PILOT, COMMERCIAL	air trans.	351	ASPHALT DISTRIBUTOR TENDER	construction
322	AIRPLANE FLIGHT ATTENDANT	air trans.	351	ASPHALT PAVING MACHINE OPERATOR	construction
380	ALARM SERVICE TECHNICIAN	business ser.	120	ASSEMBLER	jewelry-silver.
111	ALARM SIGNAL OPERATOR	any industry	221	ASSEMBLER	house. appl.
560	AMBULANCE ATTENDANT	medical ser.	221	ASSEMBLER, ELECTRIC MOTOR	elec. equip.
560	AMBULANCE DRIVER	medical ser.	370	ASSEMBLER, INTERNAL COMBUSTION ENGINE	engine-turbine
340	AMUSEMENT PARK ATTENDANT	amuse. & rec.	370	ASSEMBLER, MOTOR VEHICLE	auto. mfg.
210	AMUSEMENT PARK ENTERTAINER	amuse. & rec.	221	ASSEMBLER, MUSICAL INSTRUMENTS	musical inst.

Group No.	Occupation	Industry	Group No.	Occupation	Industry
320	ASSEMBLER, OFFICE MACHINES	office machines	322	BAKER	hotel & rest.
221	ASSEMBLER, PRODUCTION	any industry	460	BAKER HELPER	bakery products
120	ASSEMBLER, SEMICONDUCTOR	electron. comp.	420	BAKER	bakery products
221	ASSEMBLER, SMALL PRODUCTS	any industry	322	BAKERY SUPERVISOR	bakery products
380	ASSEMBLER, SUBASSEMBLY	aircraft mfg.	330	BAND-SAWING MACHINE OPERATOR	fabrication, nec
380	ASSEMBLER-INSTALLER, GENERAL	aircraft mfg.	230	BAND SAWMILL OPERATOR	saw. & plan.
590	ATHLETE, PROFESSIONAL	amuse. & rec.	211	BANK CLERK	financial
390	ATHLETIC TRAINER	amuse. & rec.	290	BARBER	personal ser.
111	ATTENDANCE CLERK	education	330	BARREL ASSEMBLER	wood. container
111	AUCTION CLERK	retail trade	460	BARREL FILLER	beverage
210	AUCTIONEER	retail trade	322	BARTENDER	hotel & rest.
212	AUDIO OPERATOR	radio-tv broad.	221	BASKET MAKER	wood. container
221	AUDIO VIDEO REPAIRER	any industry	230	BATCH STILL OPERATOR	chemical
251	AUDIOVISUAL PRODUCTION SPECIALIST	profess. & kin.	321	BATTERY ASSEMBLER, DRY CELL	elec. equip.
111	AUDIT CLERK	clerical	321	BATTERY REPAIRER	any industry
111	AUDITOR	profess. & kin.	290	BEAUTICIAN	personal ser.
251	AUDITOR, FIELD	profess. & kin.	230	BED LASTER	boot & shoe
330	AUTOCLAVE OPERATOR	aircraft mfg.	491	BEEKEEPER	agriculture
370	AUTOMATED EQUIPMENT INSTALLER	machinery mfg.	360	BELLHOP	hotel & rest.
370	AUTOMOBILE ASSEMBLER	auto. mfg.	221	BENCH WORKER	optical goods
340	AUTOMOBILE DETAILER	automotive ser.	330	BENDING MACHINE OPERATOR	any industry
111	AUTOMOBILE LOCATOR	retail trade	493	BICYCLE MESSENGER	business ser.
321	AUTOMOBILE UPHOLSTERER	automotive ser.	320	BICYCLE REPAIRER	any industry
340	AUTOMOBILE WASHER & POLISHER	automotive ser.	480	BILLBOARD & SIGN ERECTOR	fabrication, nec
460	AUTOMOBILE WRECKER	wholesale tr.	480	BILLBOARD ERECTOR HELPER	construction
370	AUTOMOBILE ACCESSORIES INSTALLER	automotive ser.	112	BILLING CLERK	clerical
370	AUTOMOBILE BODY REPAIRER	automotive ser.	213	BILLPOSTER	business ser.
214	AUTOMOBILE REPAIR SERVICE ESTIMATOR	automotive ser.	230	BINDERY WORKER	print. & pub.
370	AUTOMOBILE SERVICE STATION MECHANIC	automotive ser.	212	BIOCHEMIST	profess. & kin.
321	AUTO PAINTER	any industry	110	BIOLOGY SPECIMEN TECHNICIAN	profess. & kin.
380	AWNING MAKER	tex. prod., nec.	320	BIOMEDICAL EQUIPMENT TECHNICIAN	profess. & kin.
240	BABYSITTER	domestic ser.	430	BLACKSMITH	forging
460	BAGGAGE HANDLER	r.r. trans.	460	BLACKSMITH HELPER	forging
212	BAGGAGE SCREENER, AIRPO	air transport.	480	BLASTER	mining;
214	BAGGER	retail trade;	332	BLENDER	construction
		groceries	240	BLIND AIDE	petrol. refin.
490	BAILIFF	government ser.	330	BLISTER MACHINE OPERATOR	personal ser.
			220	BLOCKER AND CUTTER, CONTACT LENS	any industry
					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	Group No.	Occupation	Industry
360	CADDIE	amuse. & rec.	330	CARTON-FORMING MACHINE OPERATOR	any industry
322	CAFETERIA ATTENDANT	hotel & rest.	460	CARTON-FORMING MACHINE TENDER	paper goods
480	CAGER	mine & quarry	120	CARTOONIST, MOTION PICTURES	motion picture
221	CAKE DECORATOR	bakery products	111	CASEWORKER	social ser.
120	CALLIGRAPHER	profess. & kin.	320	CASH REGISTER SERVICER	any industry
360	CAMERA OPERATOR	motion picture	111	CASHIER	clerical
220	CAMERA REPAIRER	photo. appar.	214	CASHIER-CHECKER	retail trade
390	CAMP COUNSELOR	amuse. & rec.	230	CASING MACHINE OPERATOR	meat products
340	CAMPGROUND ATTENDANT	amuse. & rec.	330	CASTER	smelt. & refin.
230	CAN-FILLING AND CLOSING MACHINE TENDER	can. & preserv.	331	CASTER	jewelry-silver.
221	CANDLEMAKER	fabrication, nec	320	CASTING REPAIRER	any industry
331	CANDY MAKER	sugar & conf.	322	CATERER	personal ser.
221	CANNER	furniture	491	CATTLE HERDER	agriculture
230	CANNERY WORKER, HAND OR MACHINE	can. & preserv.	480	CAULKER	construction
420	CANVAS REPAIRER	any industry	330	CELOPHANE BAG MACHINE OPERATOR	paper goods
230	CAP-LINING MACHINE OPERATOR	any industry	481	CEMENT MASON	construction
320	CAPACITOR ASSEMBLER	elec. equip.	480	CEMENT SPRAYER, NOZZLE	construction
211	CARD DEALER	amusement and rec.	480	CEMENT MASON HELPER	construction
322	CAR HOP	hotel & rest.	480	CEMENTER, OILWELL	petrol. & gas
460	CARBIDE POWDER PROCESSOR	machine shop	331	CENTER MACHINE OPERATOR	sugar & conf.
110	CARDIAC MONITOR TECHNICIAN	medical ser.	380	CENTRAL OFFICE REPAIRER	tel. & tel.
212	CARDIOPULMONARY TECHNOLOGIST	medical ser.	331	CENTRIFUGAL EXTRACTOR OPERATOR	any industry
240	CARDROOM ATTENDANT	amuse. & rec.	230	CENTRIFUGE OPERATOR, PLASMA PROCESSING	medical ser.
360	CARGO AGENT	air trans.	230	CENTRIFUGE SEPARATOR OPERATOR	chemical
380	CARPENTER	construction	110	CEPHALOMETRIC ANALYST	medical ser.
380	CARPENTER APPRENTICE	construction	331	CERAMIC COATER, MACHINE	any industry
480	CARPENTER HELPER	construction	460	CHAIN OFFBEARER	saw. & plan.
380	CARPENTER, ACOUSTICAL	construction	492	CHAIN SAW OPERATOR	logging
380	CARPENTER, MAINTENANCE	any industry	331	CHAR CONVEYOR TENDER	sugar & conf.
380	CARPENTER, RAILCAR	railroad equip.	230	CHARGE PREPARATION TECHNICIAN	electron. comp.
481	CARPENTER, ROUGH	construction	492	CHASER	logging
380	CARPENTER, SHIP	ship-boat mfg.	250	CHAUFFEUR	any industry
480	CARPET CUTTER	retail trade	111	CHECK CASHIER	business ser.
481	CARPET LAYER	retail trade	360	CHECKER	laundry & rel.
321	CARPET SEWER	carpet & rug	214	CHECKER, GROCERY	retail trade
230	CARPET WEAVER	carpet & rug			
480	CARPET LAYER HELPER	retail trade			
120	CARTOGRAPHER	prof. & kindred			

Group No.	Occupation	Industry	Group No.	Occupation	Industry
360	CHECKER, UNLOADER	clerical	111	CLERK, ADVERTISING SPACE	print. & pub.
360	CHECKER, WAREHOUSE	retail trade	111	CLERK, ANIMAL HOSPITAL	medical ser.
240	CHECKROOM ATTENDANT	any industry	112	CLERK, BILLING	clerical
322	CHEESE CUTTER	dairy products	111	CLERK, COLLECTION	clerical
322	CHEESEMAKER	dairy products	111	CLERK, CONTRACT, AUTOMOBILE	retail trade
322	CHEF DE FROID	hotel & rest.	111	CLERK, COURT	government ser.
212	CHEMICAL ENGINEER	profess. & kin.	111	CLERK, CREDIT	clerical
212	CHEMICAL LABORATORY TECHNICIAN	profess. & kin.	111	CLERK, ELECTION	government ser.
230	CHEMICAL PREPARER	chemical	214	CLERK, FILE	clerical
212	CHEMIST	profess. & kin.	211	CLERK, GENERAL	clerical
240	CHILD MONITOR	domestic ser.	211	CLERK, INVENTORY CONTROL	clerical
111	CHILD SUPPORT OFFICER	government ser.	214	CLERK, SALES	retail trade
340	CHILD-CARE ATTENDANT, HANDICAPPED	education	360	CLERK, SHIPPING	clerical
340	CHILDREN'S INSTITUTION ATTENDANT	any industry	112	CLERK, STATISTICAL	clerical
341	CHIMNEY SWEEP	any industry	111	CLERK, WIRE TRANSFER	financial
460	CHIPPER, ROUGH	any industry	112	CLERK-TYPIST	clerical
311	CHIROPRACTOR	medical ser.	110	CLINICAL PSYCHOLOGIST	profess. & kin.
311	CHIROPRACTOR ASSISTANT	medical ser.	330	CLOTH PRINTER	any industry
460	CHOCOLATE PRODUCTION MACHINE OPERATOR	sugar & conf.	221	CLOTH TESTER, QUALITY	textile
560	CHOKE SETTER	logging	390	COACH, PROFESSIONAL ATHLETES	amuse. & rec.
492	CHOPPER	logging	331	COATER OPERATOR	any industry
491	CHRISTMAS TREE FARM WORKER	forestry	331	COATING MACHINE OPERATOR	paper & pulp
320	CHUCKING LATHE OPERATOR	machine shop	320	COBBLER	boot & shoe
330	CIRCULAR SAWYER, STONE	stonework	322	COFFEEMAKER	hotel & rest.
212	CIVIL ENGINEER	profess. & kin.	230	COFFEE ROASTER	food prep., nec
251	CLAIM ADJUSTER, FIELD	insurance; business ser.	230	COIL WINDER	elec. equip.
111	CLAIM ADJUSTER, INSIDE	insurance	221	COIL WINDER, REPAIR	any industry
111	CLAIMS CLERK	insurance	214	COIN COUNTER AND WRAPPER	clerical
221	CLAY MODELER	any industry	251	COIN MACHINE COLLECTOR	business ser.
340	CLEANER, COMMERCIAL OR INSTITUTIONAL	any industry	370	COIN MACHINE SERVICE REPAIRER	svc. ind. mach.
340	CLEANER, EQUIPMENT	any industry	111	COLLECTION CLERK	clerical
340	CLEANER, HOSPITAL	medical ser.	251	COLLECTOR, OUTSIDE	clerical
340	CLEANER, LABORATORY EQUIPMENT	any industry	230	COLOR PRINTER OPERATOR	photofinishing
341	CLEANER, WINDOW	any industry	111	COLUMNIST/COMMENTATOR	print. & pub.
210	CLERGY MEMBER	profess. & kin.	111	COMMUNITY ORGANIZATION WORKER	social serv.
			250	COMMUNITY SERVICE OFFICER, PATROL	
			240	COMPANION	domestic ser.
			221	COMPOSITOR, TYPESETTER	print. & pub.
			230	COMPOUNDER	petrol. refin.
			360	COMPRESSED GAS PLANT WORKER	chemical

Group No.	Occupation	Industry	Group No.	Occupation	Industry
332	COMPRESSOR OPERATOR	any industry	330	COREMAKER	paper goods
112	COMPUTER KEYBOARD OPERATOR	clerical	331	COREMAKER, FLOOR	foundry
230	COMPUTER OPERATOR, MAINFRAME	clerical	490	CORRECTION OFFICER	government ser.
111	COMPUTER PROCESSING SCHEDULER	clerical	290	COSMETOLOGIST	personal ser.
112	COMPUTER PROGRAMMER	profess. & kin.	110	COUNSELOR	profess. & kin.
320	COMPUTER REPAIRER	office machines	390	COUNSELOR, CAMP	amuse. & rec.
111	COMPUTER SECURITY SPECIALIST	profess. & kin.	322	COUNTER ATTENDANT, CAFETERIA	hotel & rest.
320	COMPUTER SET-UP PERSON	business serv.	250	COURIER	any industry
111	COMPUTER SUPPORT ANALYST	profess. & kin.	111	COURT CLERK	government ser.
351	CONCRETE PAVING MACHINE OPERATOR	construction	112	COURT REPORTER	clerical
480	CONCRETE STONE FINISHER	concrete prod.	491	COWPUNCHER	agriculture
480	CONCRETE VIBRATOR OPERATOR	construction	360	CRANE FOLLOWER	any industry
340	CONDUCTOR, ALL RAILS	r.r. trans.	360	CRANE HOOKER	any industry
213	CONDUCTOR, PASSENGER CAR	r.r. trans.	351	CRANE OPERATOR	any industry
370	CONSTRUCTION EQUIPMENT MECHANIC	construction	360	CRATE MAKER	any industry
110	CONSULTANT, EDUCATION	education	111	CREDIT AUTHORIZER	clerical
230	CONTACT LENS MOLDER	optical goods	111	CREDIT CLERK	clerical
330	CONTOUR BAND SAW OPERATOR, VERTICAL	machine shop	111	CREDIT COUNSELOR	profess. & kin.
213	CONTRACTOR	construction	460	CREMATOR	personal ser.
120	CONTROLS DESIGNER	profess. & kin.	111	CREW SCHEDULER	air trans.
360	CONVEYOR FEEDER-OFFBEARER	any industry	230	CRIMPING MACHINE OPERATOR	any industry
360	CONVEYOR TENDER	any industry	330	CROSSBAND LAYER	millwork-plywood
370	CONVEYOR MAINTENANCE MECHANIC	any industry	460	CRUSHER OPERATOR	concrete prod.
360	CONVEYOR SYSTEM OPERATOR	any industry	112	CRYPTOGRAPHIC MACHINE OPERATOR	clerical
322	COOK	domestic ser.	330	CRYSTAL GROWER	comm. equip.
322	COOK	any industry	330	CRYSTAL SLICER	electron. comp.
322	COOK ASSISTANT	hotel & rest.	212	CURATOR	museums
322	COOK, CHIEF	hotel & rest.	211	CURRENCY COUNTER	financial
322	COOK, FAST FOOD	hotel & rest.	340	CUSTODIAN	any industry
322	COOK, PASTRY	hotel & rest.	360	CUSTODIAN, ATHLETIC EQUIPMENT	amuse. & rec.
322	COOK, SPECIALTY	hotel & rest.	211	CUSTODIAN, PROPERTY	government ser.
110	COORDINATOR, SKILL-TRAINING PROGRAM	government ser.	211	CUSTOMER SERVICE CLERK	retail trade
111	COPY READER	print. & pub.	213	CUSTOMER SERVICE REPRESENTATIVE	utilities
111	COPY WRITER	profess. & kin.	112	CUSTOMER SERVICE REPRESENTATIVE – INSIDE	utilities
112	COPYIST	any industry	212	CUSTOMS BROKER	financial
480	CORE DRILL OPERATOR	any industry	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	Group No.	Occupation	Industry
230	CUTTER, MACHINE	any industry	330	DIE CUTTER	any industry
230	CUTTING MACHINE OPERATOR, AUTOMATED	aircraft mfg.	120	DIE DESIGNER	machine shop
460	CUTTING MACHINE OPERATOR	textile	320	DIE MAKER	machine shop
330	CUTTING MACHINE TENDER	any industry	320	DIE SINKER	machine shop
460	CYLINDER FILLER	chemical	322	DIETARY AIDE, HOSPITAL SERVICES	medical ser.
460	CYLINDER PRESS FEEDER	print. & pub.	212	DIETITIAN, CLINICAL	profess. & kin.
120	CYTOTECHNOLOGIST	medical ser.	322	DINING ROOM ATTENDANT	hotel & rest.
460	DAIRY PROCESSING EQUIPMENT OPERATOR	dairy products	351	DINKEY OPERATOR	any industry
590	DANCER	amuse. & rec.	221	DIPPER	jewelry-silver.
111	DATA BASE ADMINISTRATOR	profess. & kin.	331	DIPPER	any industry
380	DATA COMMUNICATIONS INSTALLER	any industry	110	DIRECTOR, FUNDRAISING	nonprofit org.
112	DATA ENTRY CLERK	clerical	110	DIRECTOR, MOTION PICTURE	motion picture
221	DECAL APPLIER	any industry	212	DIRECTOR, RECREATION CENTER	social ser.
491	DECKHAND	water trans., fishing & hunt.	110	DIRECTOR, REGULATORY AGENCY	government ser.
331	DECONTAMINATOR, RADIOACTIVE MATERIAL	any industry	110	DIRECTOR, RESEARCH AND DEVELOPMENT	any industry
221	DECORATOR	bakery products	110	DIRECTOR, SERVICE	retail trade
380	DECORATOR, SPECIAL EVENT	any industry	210	DIRECTOR, SOCIAL	hotel & rest.
480	DECORATOR, STREET AND BUILDING	any industry	112	DIRECTORY ASSISTANCE OPERATOR	tel. & tel.
322	DELI CUTTER-SLICER	retail trade	322	DISHWASHER, HAND OR MACHINE	hotel & rest.
250	DELIVERER, CAR RENTAL	automotive ser.	111	DISPATCHER, MOTOR VEHICLE	clerical
250	DELIVERER, FLORAL ARRANGEMENTS	retail trade	380	DISPLAY MAKER	fabrication, nec
213	DELIVERER, NON-DRIVING	clerical	330	DISPLAY SCREEN FABRICATOR	electron. comp.
250	DELIVERER, PIZZA	retail trade	360	DISPLAYER, MERCHANDISE	retail trade
212	DEMONSTRATOR	retail trade	460	DISTILLERY WORKER, GENERAL	beverage
212	DENTAL ASSISTANT	medical ser.	221	DISTRESSER	furniture
220	DENTAL HYGIENIST	medical ser.	480	DITCH DIGGER	construction
220	DENTAL LABORATORY TECHNICIAN	protective dev.	492	DIVER	any industry
220	DENTIST	medical ser.	230	DIVIDING MACHINE OPERATOR	bakery products
490	DEPUTY, COURT	government ser.	111	DOCUMENT PREPARER, MICROFILMING	business ser.
480	DERRICK WORKER, WELL SERVICE	petrol. & gas	491	DOG CATCHER	government ser.
230	DESIGN PRINTER, BALLOON	rubber goods	491	DOG GROOMER	personal ser.
490	DETECTIVE	government ser.	251	DOG LICENSER	nonprofit org.
390	DETECTIVE, STORE	retail trade	560	DOLLY PUSHER	radio-tv broad.
212	DIALYSIS TECHNICIAN	medical ser.	390	DOUBLE	motion picture
330	DIE CASTING MACHINE OPERATOR	foundry	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	Group No.	Occupation	Industry
120	DRAFTER, ASSISTANT	profess. & kin.	221	ELECTRICAL APPLIANCE REPAIRER, SMALL	any industry
120	DRAFTER, CIVIL	profess. & kin.	370	ELECTRICAL APPLIANCE SERVICER	any industry
120	DRAFTER, ELECTRICAL	profess. & kin.	460	ELECTRICAL APPLIANCE UNCRATER	any industry
120	DRAFTER, ELECTROMECHANISMS DESIGN	profess. & kin.	221	ELECTRICAL INSTRUMENT REPAIRER	any industry
120	DRAFTER, LANDSCAPE	profess. & kin.	380	ELECTRICIAN	construction
120	DRAFTER, MECHANICAL	profess. & kin.	380	ELECTRICIAN	ship-boat mfg.
351	DRAGLINE OPERATOR	any industry	380	ELECTRICIAN APPRENTICE	construction
380	DRAPERY HANGER	retail trade	380	ELECTRICIAN HELPER	any industry
110	DRAWINGS CHECKER, ENGINEERING	profess. & kin.	370	ELECTRICIAN, AUTOMOTIVE	automotive ser.
221	DRESSMAKER	any industry	380	ELECTRICIAN, MAINTENANCE	any industry
230	DRIER OPERATOR	food prep., nec	380	ELECTRICIAN, POWERHOUSE	utilities
331	DRIER OPERATOR	chemical	460	ELECTROLESS PLATER, PRINTED CIRCUIT BOARD PANELS	electron. comp.
330	DRILL PRESS OPERATOR	machine shop	290	ELECTROLOGIST	personal ser.
330	DRILL PRESS OPERATOR, NUMERICAL CONTROL	machine shop	220	ELECTROMECHANICAL TECHNICIAN	inst. & app.
321	DRILLER, HAND	any industry	320	ELECTROMEDICAL EQUIPMENT REPAIRER	any industry
240	DRIVE-IN THEATER ATTENDANT	amuse. & rec.	212	ELECTROMYOGRAPHIC TECHNICIAN	medical ser.
251	DRIVER'S LICENSE EXAMINER	government ser.	221	ELECTRONIC COMPONENT PROCESSOR	electron. comp.
350	DRIVER, NEWSPAPER DELIVERY	wholesale tr.	221	ELECTRONICS ASSEMBLER	comm. equip.
430	DROPHAMMER OPERATOR	aircraft mfg.	212	ELECTRONICS TECHNICIAN	profess. & kin.
430	DRUM STRAIGHTENER	any industry	221	ELECTRONICS TESTER	comm. equip.
340	DRY CLEANER	laundry & rel.	212	ELECTRONICS DESIGN ENGINEER	profess. & kin.
331	DRY-PRESS OPERATOR	brick & tile	351	ELEVATING GRADER OPERATOR	construction
380	DRY WALL APPLICATOR	construction	482	ELEVATOR CONSTRUCTOR	construction
481	DUCT INSTALLER	construction	380	ELEVATOR EXAMINER AND ADJUSTER	any industry
330	DYNAMITE PACKING MACHINE OPERATOR	chemical	460	ELEVATOR OPERATOR, FREIGHT	any industry
212	ECHOCARDIOGRAPH TECHNICIAN	medical ser.	380	ELEVATOR REPAIRER	any industry
110	EDITOR, MANAGING, NEWSPAPER	print. & pub.	111	ELIGIBILITY WORKER	government ser.
111	EDITOR, NEWSPAPER	print. & pub.	420	EMBALMER	personal ser.
111	EDITOR, PUBLICATIONS	print. & pub.	331	EMBOSSE	any industry
112	EDITORIAL WRITER	print. & pub.	230	EMBOSSING PRESS OPERATOR	print. & pub.
221	EGG CANDLER	any industry	460	EMERGENCY MEDICAL TECHNICIAN	medical ser.
380	ELECTRIC METER INSTALLER	utilities	111	EMPLOYEE RELATIONS SPECIALIST	profess. & kin.
221	ELECTRIC MOTOR ASSEMBLER	elec. equip.	111	EMPLOYMENT INTERVIEWER	profess. & kin.
320	ELECTRIC MOTOR CONTROL UNIT ASSEMBLER	elec. equip.	320	ENGINE LATHE OPERATOR	machine shop
320	ELECTRIC SIGN ASSEMBLER	fabrication, nec	213	ENGINEER, AERONAUTICAL TEST	aircraft mfg.
212	ELECTRICAL ENGINEER	profess. & kin.	111	ENGINEER, AERONAUTICAL DESIGN	aircraft mfg.
212	ELECTRICAL TECHNICIAN	profess. & kin.			

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

Group No.	Occupation	Industry	Group No.	Occupation	Industry
490	FIRE FIGHTER	any industry	480	FORM TAMPER	construction
490	FIRE LOOKOUT	forestry	480	FORM TAMPER OPERATOR	construction
490	FIRE RANGER	forestry	320	FORMER, HAND	any industry
320	FIRE EXTINGUISHER REPAIRER	any industry	331	FORMING MACHINE OPERATOR	glass mfg.
490	FIRE INSPECTOR	government serv.	111	FORMS ANALYST	profess. & kin.
332	FIRER, HIGH PRESSURE	any industry	331	FOURDRINIER MACHINE OPERATOR	paper & pulp
320	FIRESETTER	elec. equip.	470	FRAME REPAIRER	furniture
360	FIREWORKS DISPLAY SPECIALIST	any industry	370	FRAME STRAIGHTENER	motor-bicycles
490	FISH AND GAME WARDEN	government ser.	230	FREEZER OPERATOR	dairy products
322	FISH CLEANER	can. & preserv.	491	FRUIT PICKER	agriculture
491	FISH FARMER	fishing & hunt.	360	FRUIT BUYING INSPECTOR	can. & preserv.
491	FISH HATCHERY LABORER	fishing & hunt.	331	FRUIT GRADER OPERATOR	agriculture
492	FISHER, DIVING	fishing & hunt.	332	FUEL ATTENDANT, PLANT	any industry
491	FISHER, LINE	fishing & hunt.	480	FUMIGATOR	business ser.
491	FISHER, NET	fishing & hunt.	212	FUND RAISER	nonprofit org.
481	FITTER	construction, pipe lines	340	FUNERAL ATTENDANT	personal ser.
430	FITTER, METAL	any industry	560	FUNERAL CAR CHAUFFEUR	personal ser.
320	FIXTURE REPAIRER-FABRICATOR	any industry	212	FUNERAL DIRECTOR	personal ser.
213	FLAGGER, TRAFFIC CONTROL	construction	341	FURNACE CLEANER	any industry
230	FLATWORK FINISHER	laundry & rel.	380	FURNACE INSTALLER AND REPAIRER, HOT AIR	any industry; utilities
322	FLIGHT ATTENDANT	air trans.	321	FURNITURE ASSEMBLER	furniture
212	FLIGHT ENGINEER	air trans.	470	FURNITURE ASSEMBLER/HEAVY	woodworking
211	FLIGHT INFORMATION EXPEDITER	air trans.	360	FURNITURE CRATER	any industry
380	FLOOR LAYER	construction	221	FURNITURE FINISHER	woodworking
480	FLOOR FINISHER HELPER	construction	560	FURNITURE MOVER	motor trans.
221	FLORIST	retail trade	321	FURNITURE UPHOLSTERER	any industry
460	FLOUR BLENDER	grain-feed mills	221	FURRIER	fur goods
230	FOLDER SEAMER, AUTOMATIC	any industry	370	GARAGE SERVICER, TRANSPORTATION EQUIPMENT	any industry
230	FOLDING MACHINE OPERATOR	print. & pub.	560	GARBAGE COLLECTOR, MANUAL	motor trans.
330	FOLDING MACHINE OPERATOR	paper goods	491	GARDENER	domestic ser.
330	FOLDING MACHINE OPERATOR	textile	221	GARMENT CUTTER, HAND	any industry
322	FOOD ASSEMBLER, KITCHEN	hotel & rest.	321	GARMENT CUTTER, MACHINE	any industry
492	FOREST WORKER	forestry	332	GAS COMPRESSOR OPERATOR	any industry
490	FOREST FIRE FIGHTER	forestry	332	GAS ENGINE OPERATOR	any industry
213	FORESTER	profess. & kin.	320	GAS METER ADJUSTER	utilities
491	FORESTER AIDE	forestry	212	GATE AGENT	air trans.
460	FORGE HELPER	forging	213	GEOLOGIST	profess. & kin.
430	FORGING PRESS OPERATOR	forging	221	GIFT WRAPPER	retail trade
351	FORKLIFT OPERATOR	any industry	221	GILDER, METAL LEAF	any industry
481	FORM BUILDER	construction	230	GINNER	agriculture
480	FORM STRIPPER	construction			

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 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 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, 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 & rest.
330	GRINDING MACHINE TENDER	machine shop	332	HYDROELECTRIC STATION 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-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, HOSIERY	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	Group No.	Occupation	Industry
320	LUGGAGE REPAIRER	any industry	212	MANAGER, FAST FOOD SERVICES	retail trade
221	LUMBER GRADER	woodworking	110	MANAGER, HOTEL OR MOTEL	hotel & rest.
460	LUMBER HANDLER/STACKER	woodworking	212	MANAGER, HOTEL RECREATIONAL FACILITIES	amuse. & rec.
360	LUMBER SORTER	woodworking	212	MANAGER, LABOR RELATIONS	profess. & kin.
350	LUNCH TRUCK DRIVER	hotel & rest.	212	MANAGER, MOBILE HOME PARK	real estate
370	MACHINE ASSEMBLER/BUILDER	machinery mfg.	213	MANAGER, NURSERY	agriculture
360	MACHINE FEEDER	any industry	111	MANAGER, OFFICE	any industry
460	MACHINE FEEDER, RAW STOCK	tex. prod., nec	212	MANAGER, PARTS	retail trade
330	MACHINE MOLDER	foundry	111	MANAGER, PERSONNEL	profess. & kin.
230	MACHINE OPERATOR, ROOFING MATERIALS	build. mat., nec	213	MANAGER, PROPERTY	real estate
320	MACHINE SET-UP OPERATOR	machine shop	212	MANAGER, QUALITY CONTROL	profess. & kin.
221	MACHINE TESTER	office machines	212	MANAGER, RETAIL STORE	retail trade
320	MACHINIST	machine shop	212	MANAGER, STAGE	amuse. & rec.
320	MACHINIST, AUTOMOTIVE	automotive ser.	212	MANAGER, THEATER	amuse. & rec.
370	MACHINIST, BENCH	machinery mfg.	110	MANAGER, TRAFFIC	air trans.; any industry
112	MAGNETIC TAPE COMPOSER OPERATOR	print. & pub.	212	MANAGER, VEHICLE LEASING AND RENTAL	automotive ser.
211	MAIL CLERK	clerical	212	MANAGER, WAREHOUSE	any industry
230	MAILING MACHINE OPERATOR	print. & pub.	120	MANICURIST	personal ser.
370	MAINTENANCE MACHINIST	machine shop	330	MARBLE POLISHER, MACHINE	stonework
470	MAINTENANCE MECHANIC	any industry	481	MARBLE SETTER	construction
380	MAINTENANCE REPAIRER, BUILDING	any industry	480	MARBLE SETTER HELPER	construction
470	MAINTENANCE REPAIRER, INDUS. MACHINES & PLANTS	any industry	211	MARKER	retail trade
480	MAINTENANCE WORKER, MUNICIPAL	government ser.	111	MARKET RESEARCH ANALYST	profess. & kin.
311	MAKE-UP ARTIST, BODY	amuse. & rec.	221	MASKER, PARTS	any industry
110	MANAGEMENT ANALYST	profess. & kin.	311	MASSEUR/MASSEUSE	personal ser.
212	MANAGEMENT TRAINEE	any industry	212	MASTER CONTROL OPERATOR	radio-tv broad.
212	MANAGER, ADVERTISING AGENCY	business ser.	221	MAT CUTTER, PICTURE FRAMES	wood prod., nec
212	MANAGER, APARTMENT HOUSE	real estate	360	MATERIAL EXPEDITER	clerical
213	MANAGER, AUTOMOBILE SERVICE STATION	retail trade	460	MATERIAL STACKER	any industry
110	MANAGER, BENEFITS	profess. & kin.	321	MATTRESS MAKER	furniture
110	MANAGER, BUS TRANSPORTATION	motor trans.	322	MEAT CARVER, DISPLAY	hotel & rest.
212	MANAGER, CONVENTION	hotel & rest.	322	MEAT CLERK	retail trade
212	MANAGER, CUSTOMER SERVICES	business ser.	322	MEAT CUTTER	retail trade
213	MANAGER, DAIRY FARM	agriculture	331	MEAT GRINDER	meat products
110	MANAGER, DATA PROCESSING	profess. & kin.	380	MECHANIC, AIRCRAFT	aircraft mfg.
110	MANAGER, DEPARTMENT	any industry	370	MECHANIC, AUTOMOBILE	automotive ser.
			470	MECHANIC, DIESEL	any industry
			370	MECHANIC, FRONT-END	automotive ser.
			481	MECHANIC, POWERHOUSE	utilities

Group No.	Occupation	Industry	Group No.	Occupation	Industry
380	MECHANIC, RADAR	any industry	560	MINER	mine & quarry
370	MECHANIC, RADIATOR	automotive ser.	560	MINER HELPER	mine & quarry
481	MECHANIC, REFRIGERATION	svc. ind. mach.	221	MINIATURE SET CONSTRUCTOR	motion picture
370	MECHANIC, ROCKET ENGINE COMPONENT	aircraft mfg.	460	MIXER	paint & varnish
470	MECHANIC, SAFE AND VAULT	business ser.	460	MIXER, CLAY	brick & tile
370	MECHANIC, SMALL ENGINE	any industry	480	MIXER, CONCRETE	construction
370	MECHANIC, TRACTOR	automotive ser.	460	MIXER, DOUGH	bakery products
370	MECHANIC, TRANSMISSION	automotive ser.	460	MIXER, FLOUR	bakery products
370	MECHANIC, TUNE-UP	automotive ser.	480	MIXER, MORTAR	construction
214	MEDIA SPECIALIST, SCHOOL LIBRARY	library	221	MIXER, PAINT (HAND)	any industry
212	MEDICAL ASSISTANT, OFFICE	medical ser.	460	MIXER, PAINT (MACHINE)	any industry
220	MEDICAL LABORATORY TECHNOLOGIST	medical ser.	331	MIXER, SAND (MACHINE)	foundry
470	MEDICAL EQUIPMENT REPAIRER	protective dev.	331	MIXING MACHINE OPERATOR	food prep., nec
212	MEDICAL LABORATORY TECHNICIAN	medical ser.	460	MIXING MACHINE OPERATOR	any industry
211	MEDICAL RECORD CLERK	medical ser.	380	MOBILE HOME ASSEMBLER	mfd. bldgs.
321	MELTER	jewelry-silver.	212	MOBILE HOME PARK MANAGER	real estate
340	MENTAL RETARDATION AIDE, INSTITUTION	medical ser.	240	MODEL	garment
213	MESSENGER, NON-DRIVING	clerical	221	MODEL MAKER	any industry
430	METAL FABRICATOR	any industry	240	MODEL, ARTISTS'	any industry
321	METAL GRINDER AND FINISHER	any industry	213	MODEL, PHOTOGRAPHERS'	any industry
321	METAL SPRAYER, PRODUCTION	any industry	321	MOLD REPAIRER	any industry
331	METAL CLEANER, IMMERSION	any industry	221	MOLD AND MODEL MAKER, PLASTER	concrete prod.
230	METALLIZATION EQUIPMENT TENDER, SEMICONDUCTORS	comm. equip.	330	MOLDER	aircraft mfg.
212	METALLURGICAL TESTER	profess. & kin.	420	MOLDER, HAND	brick & tile
213	METER READER	utilities	320	MOLDER, PATTERN	foundry
320	METER REPAIRER	any industry	230	MOLDING MACHINE TENDER, COMPRESSION	plastic prod.
220	MICROELECTRONICS TECHNICIAN	electron. comp.	340	MORGUE ATTENDANT	medical ser.
230	MICROFILM PROCESSOR	business ser.	230	MOTION PICTURE PROJECTIONIST	amuse. & rec.
212	MICROPHONE BOOM OPERATOR	motion picture	351	MOTOR-GRADER OPERATOR	construction
491	MILKER, MACHINE	agriculture	351	MOTORBOAT OPERATOR	any industry
331	MILL OPERATOR	any industry	370	MOTORCYCLE ASSEMBLER	motor-bicycles
320	MILLING MACHINE OPERATOR, NUMERICAL CONTROL	machine shop	250	MOTORCYCLE DRIVER, DELIVERY	retail trade
481	MILLWRIGHT	any industry	490	MOTORCYCLE POLICE OFFICER	government ser.
480	MILLWRIGHT HELPER	any industry	370	MOTORCYCLE REPAIRER	automotive ser.
213	MINE INSPECTOR	mine & quarry	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	Group No.	Occupation	Industry
220	MUSICIAN, INSTRUMENTAL	amuse. & rec.	360	ORDER CHECKER	clerical
330	NAILING MACHINE OPERATOR	any industry	111	ORDER CLERK	clerical
111	NAVIGATOR	air trans.	214	ORDER CLERK	clerical
360	NEWS GATHERING TECHNICIAN	radio-tv broad.	214	ORDER FILLER, CATALOG SALES	retail trade
210	NEWSCASTER	radio-tv broad.	460	ORDERLY	medical ser.
330	NIBBLER OPERATOR	any industry	481	ORNAMENTAL IRON WORKER	construction
111	NIGHT AUDITOR	hotel & rest.	120	ORTHODONTIC TECHNICIAN	protective dev.
460	NITROGLYCERIN DISTRIBUTOR	chemical	320	ORTHOTICS TECHNICIAN	protective dev.
310	NUCLEAR MEDICINE TECHNOLOGIST	medical ser.	310	ORTHO TIST	medical ser.
330	NUMERICAL CONTROL MACHINE OPERATOR	machine shop	331	OVEN TENDER	bakery products
340	NURSE AIDE	medical ser.	351	OVERHEAD CRANE OPERATOR	any industry
220	NURSE ANESTHETIST	medical ser.	331	OXIDIZED FINISH PLATER	any industry
212	NURSE CASE MANAGER	medical ser.	221	OXIDIZER	jewelry-silver.
311	NURSE, GENERAL DUTY	medical ser.	330	PACKAGE SEALER, MACHINE	any industry
311	NURSE, LICENSED VOCATIONAL	medical ser.	330	PACKAGER, MACHINE	any industry
311	NURSE, PRIVATE DUTY	medical ser.	360	PACKER, AGRICULTURAL PRODUCE	agriculture
212	NURSE, SCHOOL	medical ser.	360	PACKER, HAND	any industry
311	NURSE-MIDWIFE	medical ser.	380	PAINTER	construction
460	NUT ROASTER	can. & preserv.	480	PAINTER HELPER	construction
212	OCCUPATIONAL ANALYST	profess. & kin.	221	PAINTER, AIRBRUSH	any industry
311	OCCUPATIONAL THERAPIST	medical ser.	482	PAINTER, BRIDGE, STRUCTURAL STEEL	construction
340	OCCUPATIONAL THERAPY AIDE	medical ser.	321	PAINTER, BRUSH	any industry
213	OCCUPATIONAL SAFETY AND HEALTH INSPECTOR	government ser.	120	PAINTER, HAND, DECORATIVE	any industry
211	OFFICE CLERK, GENERAL	clerical	380	PAINTER, SIGN	any industry
320	OFFICE MACHINE SERVICER	any industry	321	PAINTER, SPRAY GUN	any industry
330	OFFSET PRESS HELPER	print. & pub.	321	PAINTER, TOUCH-UP	any industry
230	OFFSET DUPLICATING MACHINE OPERATOR	clerical	350	PAINTER, TRAFFIC LINE	construction
230	OFFSET PRESS OPERATOR	print. & pub.	380	PAINTER, TRANSPORTATION EQUIPMENT	aircraft mfg.
480	OIL WELL DRILLER	petrol. & gas	230	PALLETIZER OPERATOR, AUTOMATIC	any industry
340	OILER	any industry	230	PAPER CUTTER, MACHINE	beverage
332	OPERATING ENGINEER	any industry	460	PAPER-BALING MACHINE TENDER	any industry
332	OPERATING ENGINEER, REFRIGERATION	any industry	331	PAPER-MAKING MACHINE OPERATOR	paper & pulp
111	OPTICAL ENGINEER	profess. & kin.	460	PAPERCUTTING MACHINE OPERATOR	print. & pub.
220	OPTICIAN, DISPENSING	optical goods	380	PAPERHANGER	construction
220	OPTICIAN, LENS GRINDER	optical goods	321	PARACHUTE RIGGER	air trans.
220	OPTOMETRIST	medical ser.	211	PARALEGAL	profess. & kin.
491	ORCHARD SPRAYER, HAND	agriculture	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	Group No.	Occupation	Industry
490	POLICE CAPTAIN	government ser.	111	PROOFREADER, PRODUCTION	print. & pub.
111	POLICE CLERK	government ser.	380	PROP MAKER	amuse. & rec.
490	POLICE OFFICER	government ser.	320	PROSTHETICS TECHNICIAN	protective dev.
490	POLICE OFFICER, STATE HIGHWAY	government ser.	310	PROSTHETIST	medical ser.
120	POLISHER, EYEGLASS FRAMES	optical goods	311	PSYCHIATRIC TECHNICIAN	medical ser.
321	POLISHER/BUFFER	any industry	340	PSYCHIATRIC WARD ATTENDANT	medical ser.
330	POLISHING MACHINE OPERATOR	any industry	110	PSYCHOLOGIST, CLINICAL	profess. & kin.
212	POLYGRAPH EXAMINER	profess. & kin.	110	PSYCHOLOGIST, COUNSELING	profess. & kin.
360	PORTER	air trans.	110	PUBLIC HEALTH SERVICE OFFICER	government ser.
360	PORTER, BAGGAGE	hotel & rest.	380	PUBLIC ADDRESS SETTER-UP & SERVICER	any industry
330	POTTERY MACHINE OPERATOR	pottery & porc.	111	PUBLIC RELATIONS REPRESENTATIVE	profess. & kin.
322	POULTRY DRESSER	agriculture	212	PULMONARY FUNCTION TECHNICIAN	medical ser.
430	POWER BRAKE OPERATOR	any industry	470	PUMP INSTALLER	any industry
230	POWER BARKER OPERATOR	paper & pulp	370	PUMP SERVICER	any industry
332	POWER PLANT OPERATOR	utilities	330	PUMP MACHINE OPERATOR	any industry
330	POWER PRESS TENDER	any industry	332	PUMP STATION OPERATOR, WATERWORKS	waterworks
332	POWER REACTOR OPERATOR	utilities	330	PUNCH PRESS OPERATOR	any industry
351	POWER SHOVEL OPERATOR	any industry	430	PUNCH PRESS OPERATOR, AUTOMATIC	any industry
481	POWERHOUSE MECHANIC	utilities	251	PURCHASING AGENT	profess. & kin.
370	PRECISION ASSEMBLER & REPAIRER	aircraft mfg.	111	PURSER	water trans.
320	PRECISION ASSEMBLER, BENCH	aircraft mfg.	321	PUTTY GLAZER, POTTERY	any industry
110	PRESIDENT	any industry	221	QUALITY ASSURANCE MONITOR	auto. mfg.
230	PRESS OPERATOR	laundry & rel.	212	QUALITY CONTROL TECHNICIAN	profess. & kin.
330	PRESS OPERATOR, CYLINDER	print. and pub.	480	QUARRY WORKER	mine & quarry
430	PRESS OPERATOR, HEAVY DUTY	any industry	120	QUICK SKETCH ARTIST	amuse. & rec.
331	PRESS OPERATOR, MEAT	meat products	221	RACKET STRINGER	toy-sport equip.
230	PRESS OPERATOR, OFFSET	print. & pub.	330	RADIAL ARM SAW OPERATOR	woodworking
330	PRESS OPERATOR, ROTOGRAVURE	print. & pub.	320	RADIAL DRILL PRESS SETUP	machine shop
321	PRESSER, ALL-AROUND	laundry & rel.	310	RADIATION THERAPY TECHNOLOGIST	medical ser.
221	PRESSER, HAND	any industry	212	RADIOGRAPHER, INDUSTRIAL	any industry
321	PRESSER, MACHINE	any industry	310	RADIOLOGIC TECHNOLOGIST	medical ser.
230	PRINT DEVELOPER, AUTOMATIC	photofinishing	380	RADIOLOGICAL EQUIPMENT SPECIALIST	inst. & app.
221	PRINTED CIRCUIT BOARD ASSEMBLER, HAND	comm. equip.	212	RADIOTELEPHONE OPERATOR	any industry
120	PRINTED CIRCUIT DESIGNER	profess. & kin.	481	RAILROAD CAR BUILDER	railroad equip.
320	PRINTER, JOB	print. & pub.	481	RAILWAY CAR REPAIRER	railroad equip.
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	Group No.	Occupation	Industry
460	RAMP ATTENDANT	air trans.	481	RIGGER/SLINGER	any industry
111	RATER	insurance	330	RIPSAW OPERATOR	woodworking
251	REAL ESTATE AGENT	profess. & kin.	230	RIVET AND BOLT MAKER	any industry
321	REAMER, HAND	machine shop	330	RIVETER, HYDRAULIC	any industry
330	REAMING MACHINE TENDER	nonfer. metal	481	RIVETER, PNEUMATIC	any industry
111	RECEPTIONIST	clerical	330	RIVETING MACHINE OPERATOR, AUTOMATIC	aircraft mfg.
212	RECORDING ENGINEER	radio-tv broad.	330	RIVETING MACHINE OPERATOR	any industry
360	RECORDING STUDIO SET-UP WORKER	recording	351	ROAD ROLLER OPERATOR	construction
230	RECORDIST	motion picture	330	ROBOTIC MACHINE OPERATOR	aircraft mfg.
214	RECREATION AIDE	social ser.	470	ROBOTICS SERVICE TECHNICIAN	machinery mfg.
310	RECREATIONAL THERAPIST	medical ser.	351	ROCK DRILL OPERATOR	construction
111	RECRUITER, PERSONNEL	profess. & kin.	560	ROLL TENDER/SETTER	print. & pub.
111	REGISTRATION CLERK	government ser.	330	ROLLER MACHINE OPERATOR	metal prod., nec
212	REHABILITATION CENTER MANAGER	government ser.	230	ROLLING MILL ATTENDANT	steel & rel.
481	REINFORCING IRON WORKER	construction	380	ROOFER	construction
221	REPAIRER	furniture	480	ROOFER HELPER	construction
220	REPAIRER, ART OBJECTS	any industry	322	ROOM SERVICE CLERK	hotel & rest.
320	REPAIRER, OFFICE MACHINES	any industry	480	ROTARY DRILLER	petrol. & gas
320	REPAIRER, SALVAGED PARTS	any industry	480	ROTARY DRILLER HELPER	petrol. & gas
320	REPAIRER, SMALL APPLIANCE	house. appl.	230	ROUGHER, BAR MILL	steel & rel.
320	REPAIRER, WIND INSTRUMENT	any industry	480	ROUGHNECK	petrol. & gas
220	REPAIRER/ADJUSTER	office machines	480	ROUSTABOUT	petrol. & gas
251	REPORTER	print. & pub.	211	ROUTER	clerical
110	REPORTS ANALYST	profess. & kin.	330	ROUTER OPERATOR	any industry
213	REPOSSESSOR	clerical	330	ROUTER OPERATOR	woodworking
460	RESAW OPERATOR	woodworking	460	RUBBER CUTTER	rubber goods
111	RESEARCHER	profess. & kin.	230	RUBBER MILL OPERATOR	plastic-synth.
111	RESERVATION CLERK	clerical	340	RUG CLEANER, HAND OR MACHINE	laundry & rel.
111	RESERVATIONS AGENT	air trans.	321	RUG REPAIRER	laundry & rel.
311	RESPIRATORY THERAPIST	medical ser.	420	SADDLE MAKER	leather prod.
340	RESPIRATORY THERAPY AIDE	medical ser.	212	SAFETY ENGINEER	profess. & kin.
240	REST ROOM ATTENDANT	any industry	212	SAFETY MANAGER	profess. & kin.
380	RESTORATION TECHNICIAN	museums	380	SAIL MAKER	ship-boat mfg.
214	RETAIL CLERK	retail trade	322	SALAD MAKER	water trans.
111	REVIEWER, FINAL APPLICATION	insurance	212	SALES AGENT, INSURANCE	insurance
330	REWINDER OPERATOR	paper goods	214	SALES CLERK	retail trade
230	RICE GRADER	grain-feed mills	251	SALES REP, FARM, GARDEN EQPT. & SUPPLIES	wholesale tr.
240	RIDE OPERATOR	amuse. & rec.	212	SALES REP, ADVERTISING	print. & pub.
482	RIGGER	ship-boat mfg.	251	SALES REP, COMPUTERS AND EDP SYSTEMS	wholesale tr.
482	RIGGER, HIGH	amuse. & rec.			

Group No.	Occupation	Industry	Group No.	Occupation	Industry
212	SALES REP, DATA PROCESSING SERVICES	business ser.	321	SCULPTOR	stonework
251	SALES REP, DOOR-TO-DOOR	retail trade	112	SECRETARY	clerical
212	SALES REP, FINANCIAL SERVICES	financial	112	SECRETARY, LEGAL	clerical
251	SALES REP, LIVESTOCK	wholesale tr.	112	SECRETARY, MEDICAL	medical ser.
251	SALES REP, OFFICE MACHINES	retail trade	112	SECRETARY, SOCIAL	clerical
251	SALES REP, RECREATION, SPORTING GOODS	wholesale tr.	212	SECURITY GUARD, GATE	any industry
251	SALES REP, SECURITY SYSTEMS	business ser.	213	SECURITY GUARD, PLANT	any industry
212	SALES REP, UPHOLSTERY, FURNITURE REPAIR	retail trade	390	SECURITY OFFICER	any industry
251	SALES REP, WOMEN'S AND GIRLS' APPAREL	wholesale tr.	230	SEED PELLETER	agriculture
251	SALESPERSON, AUTOMOBILES	retail trade	212	SEISMOLOGIST	profess. & kin.
214	SALESPERSON, GENERAL MERCHANDISE	retail trade	330	SEMICONDUCTOR PROCESSOR	electron. comp.
214	SALESPERSON, PARTS	retail trade	380	SEPTIC TANK INSTALLER	construction
214	SALESPERSON, SHOES	retail trade	480	SEPTIC TANK SERVICER	construction
430	SALVAGE CUTTER	welding	214	SERVICE MANAGER	automotive ser.
480	SANDBLASTER	any industry	213	SERVICE REPRESENTATIVE	utilities
330	SANDER, MACHINE	woodworking	340	SERVICE STATION ATTENDANT	automotive ser.
322	SANDWICH MAKER	hotel & rest.	213	SET DESIGNER	motion picture
331	SAUSAGE MAKER	meat products	320	SETTER, AUTOMATIC SPINNING LATHE	any industry
331	SAUSAGE STUFFER	meat products	360	SET-UP PERSON, TRADE SHOW	retail trade
321	SAW BLADE FILER	any industry	480	SEWAGE DISPOSAL WORKER	sanitary ser.
360	SAWMILL WORKER	saw. & plan.	221	SEWER, HAND	any industry
330	SAWYER	plastic prod.; plastic-synth.	480	SEWER LINE REPAIRER	sanitary ser.
230	SAWYER, CIRCULAR HEAD	saw. & plan.	341	SEWER PIPE CLEANER	business ser.
230	SAWYER, CORK SLABS	wood prod., nec	230	SEWING MACHINE OPERATOR	tex. prod., nec
330	SAWYER, TRIMMER	saw. & plan.	370	SEWING MACHINE REPAIRER	any industry
111	SCHEDULER	clerical	330	SHAPER OPERATOR	woodworking
212	SCHOOL PRINCIPAL	education	330	SHAPING MACHINE OPERATOR	machine shop
111	SCOREBOARD OPERATOR	amuse. & rec.	430	SHEAR OPERATOR	any industry
251	SCOUT, PROFESSIONAL SPORTS	amuse. & rec.	370	SHEETMETAL MECHANIC	any industry
460	SCRAP HANDLER	any industry	320	SHEETMETAL FABRICATING MACHINE OPERATOR	any industry
320	SCREEN MAKER, PHOTOGRAPHIC PROCESS	any industry	491	SHELLFISH GROWER	fishing & hunt.
221	SCREEN MAKER, WALLPAPER	paper goods	490	SHERIFF, DEPUTY	government ser.
330	SCREW MACHINE OPERATOR, MULTIPLE SPINDLE	machine shop	481	SHIPFITTER	ship-boat mfg.
330	SCROLL MACHINE OPERATOR	struct. metal	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	Group No.	Occupation	Industry
250	SHUTTLE BUS DRIVER	any industry	430	SPINNER, HYDRAULIC	any industry
380	SIDER	construction	330	SPINNING LATHE OPERATOR	any industry
341	SIGN POSTER	any industry	221	SPORTS EQUIPMENT REPAIRER	any industry
120	SIGN WRITER, HAND	any industry	221	SPOT CLEANER	laundry & rel.
221	SILK SCREEN ETCHER	engraving	111	SPOTTER, PHOTOGRAPHIC	photofinishing
221	SILK SCREEN PRINTER	any industry	330	SPRAY PAINTING MACHINE OPERATOR	any industry
221	SILK SCREEN FRAME ASSEMBLER	any industry	460	SPREADER MACHINE, CLOTH	textile
220	SILVERSMITH	jewelry-silver.	491	STABLE ATTENDANT	any industry
210	SINGER	amuse. & rec.	230	STAMPING PRESS OPERATOR	any industry
493	SKI INSTRUCTOR	amuse. & rec.	390	STAND-IN	motion picture
240	SKI LIFT OPERATOR	amuse. & rec.	330	STAPLING MACHINE OPERATOR	any industry
590	SKI PATROLLER	amuse. & rec.	380	STATION INSTALLER AND REPAIRER	tel. & tel.
221	SKI REPAIRER, PRODUCTION	toy-sport equip.	332	STATIONARY ENGINEER	any industry
420	SKINNER	meat products	111	STATISTICIAN, APPLIED	profess. & kin.
480	SKIP TENDER	mine & quarry	340	STEAM CLEANER	automotive ser.
111	SKIP TRACER	clerical	482	STEEL ERECTOR	construction
460	SLASHER TENDER	textile	380	STEEL PLATE CAULKER	any industry
230	SLICING MACHINE OPERATOR	bakery products	482	STEEPLE JACK	construction
460	SLITTING MACHINE OPERATOR HELPER	any industry	112	STENOCAPTIONER	radio-tv broad.
331	SLURRY BLENDER	cement	112	STENOGRAPHER	clerical
370	SMOG TECHNICIAN	automotive ser.	112	STENOTYPE OPERATOR	clerical
590	SMOKE JUMPER	forestry	330	STEREOTYPE CASTER & MOLDER	print. & pub.
351	SNOWPLOW OPERATOR	government ser.	230	STERILIZER	medical ser.
230	SOAP MAKER	soap & rel.	351	STEVEDORE	water trans.
111	SOCIAL WORKER	social ser.	230	STILL TENDER	any industry
111	SOFTWARE ENGINEER	profess. & kin.	230	STITCHER, STANDARD MACHINE	boot & shoe
213	SOIL CONSERVATIONIST	profess. & kin.	230	STITCHER, WIRE, SADDLE AND SIDE	print. & pub.
481	SOLAR ENERGY SYSTEM INSTALLER	any industry	214	STOCK CLERK	clerical
470	SOLAR FABRICATION TECHNICIAN	machine shop	360	STOCK CLERK	clerical
120	SOLDERER	jewelry-silver.	360	STOCK CLERK	retail trade
111	SORTER	clerical	214	STOCK CLERK, AUTOMOTIVE EQPT.	clerical
221	SORTER, AGRICULTURAL PRODUCE	agriculture	321	STONE CARVER	stonework
221	SORTER, REMNANT	textile	480	STONE DRILLER	stonework
214	SORTER-PRICER	nonprofit org.	220	STONE SETTER	jewelry-silver.
212	SOUND MIXER	motion picture	480	STONE SPLITTER OPERATOR	stonework
212	SOUND EFFECTS TECHNICIAN	radio-tv broad.	321	STONECUTTER, HAND	stonework
322	SOUS CHEF	hotel & rest.	330	STONECUTTER, MACHINE	stonework
490	SPECIAL AGENT	government ser.	380	STONEMASON	construction
390	SPECIAL POLICEMAN	any industry	120	STONER	jewelry-silver.
212	SPEECH PATHOLOGIST	profess. & kin.	470	STOVE REFINISHER	any industry
331	SPINNER	sugar & conf.	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, 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, FRAME	leather mfg.	111	TAX PREPARER	business ser.
221	STRIPER & LETTERER, HAND, MOTORCYCLES	any industry	250	TAXI DRIVER	motor trans.
331	STRIPPER-ETCHER, PRINTED CIRCUIT BOARDS	electron. comp.	311	TAXIDERMIST	profess. & kin.
482	STRUCTURAL STEEL WORKER	construction	214	TEACHER AIDE	education
482	STRUCTURAL STEEL WORKER 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	SUPERCALENDAR OPERATOR	paper & pulp	214	TEACHER, PHYSICALLY IMPAIRED	education
212	SUPERINTENDENT, BUILDING	any industry	214	TEACHER,	education
213	SUPERINTENDENT, CONSTRUCTION	construction	212	PRESCHOOL/KINDERGARTEN	education
212	SUPERINTENDENT, PLANT PROTECTION	any industry	214	TEACHER, SECONDARY SCHOOL	education
360	SUPPLY CLERK	clerical	120	TEACHER, VOCATIONAL TRAINING	profess. & kin.
220	SURGEON	medical ser.	112	TELEGRAPH OPERATOR	clerical
230	SURGICAL DRESSING MAKER, MACHINE	protective dev.	112	TELEPHONE OPERATOR	clerical
212	SURGICAL TECHNICIAN	medical ser.	112	TELEPHONE ANSWERING SERVICE OPERATOR	business ser.
213	SURVEYOR	surveying/carto- graphic	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 INSTALLER	any industry
111	SWITCHBOARD OPERATOR, POLICE 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 PROCESSING EQUIPMENT	electron. comp.
			320	TESTER, NONDESTRUCTIVE	profess. & kin.

Group No.	Occupation	Industry	Group No.	Occupation	Industry
212	TESTING MACHINE OPERATOR, METAL	profess. & kin.	212	TOXICOLOGIST	pharmaceut.
370	THERMAL CUTTER, HAND	welding	221	TOY ASSEMBLER	toy-sport equip.
330	THERMAL CUTTING-MACHINE OPERATOR	welding	351	TRACTOR OPERATOR	any industry
320	THERMOSTAT REPAIRER	inst. & app.	351	TRACTOR CRANE OPERATOR	any industry
221	THREAD CUTTER, HAND OR MACHINE	any industry	111	TRAFFIC CLERK	business ser.
330	THREADING MACHINE OPERATOR	machine shop	212	TRAFFIC ENGINEER	government ser.
321	THROWER	pottery & porc.	490	TRAFFIC OFFICER	government ser.
212	TICKET AGENT	any industry	111	TRAIN DISPATCHER	r.r. trans.
213	TICKET INSPECTOR, TRANSPORTATION	r.r. transportation	112	TRANSCRIBING MACHINE OPERATOR	clerical
230	TICKET PRINTER	any industry	370	TRANSFORMER ASSEMBLER	elec. equip.
240	TICKET TAKER	amuse. & rec.	111	TRANSLATOR, DOCUMENTS	profess. & kin.
330	TILE MAKER	brick & tile	492	TREE CUTTER	agriculture
380	TILE SETTER	construction	491	TREE PRUNER, LOW LEVEL/BUCKET	agriculture
480	TILE SETTER HELPER	construction	482	TREE SURGEON	agriculture
330	TIMBER-SIZER OPERATOR	saw. & plan.	482	TREE TRIMMER	tel. & tel.
212	TIME AND MOTION STUDY ANALYST	profess. & kin.	230	TRIMMER, MACHINE	garment
321	TIRE BUILDER, AUTOMOBILE	rubber tire	322	TRIMMER, MEAT	meat products
460	TIRE CHANGER	automotive ser.	221	TROPHY ASSEMBLER	jewelry-silver.
460	TIRE MOLDER	rubber tire	350	TRUCK DRIVER	any industry
321	TIRE RECAPPER	automotive ser.	350	TRUCK DRIVER, CONCRETE MIXING	construction
460	TIRE REPAIRER	automotive ser.	350	TRUCK DRIVER, DUMP TRUCK	any industry
420	TIRE TRIMMER, HAND	rubber tire	350	TRUCK DRIVER, GARBAGE	motor trans.
211	TITLE SEARCHER	real estate	350	TRUCK DRIVER, LOGS	logging
211	TOLL COLLECTOR	government ser.	351	TRUCK DRIVER, ROAD OILING	construction
220	TOOL DESIGNER	profess. & kin.	350	TRUCK DRIVER, SALES ROUTE	retail trade
330	TOOL DRESSER	any industry	350	TRUCK DRIVER, TANK TRUCK	petrol. refin.
320	TOOL MAKER	machine shop	350	TRUCK DRIVER, TOW TRUCK	automotive ser.
320	TOOL MAKER, BENCH	machine shop	350	TRUCK DRIVER, TRACTOR-TRAILER	any industry
120	TOOL PROGRAMMER, NUMERICAL CONTROL	electron. comp.	460	TRUCK LOADER	any industry
360	TOOL AND EQUIPMENT RENTAL CLERK	business ser.	460	TRUCK DRIVER, HELPER	any industry
360	TOOL CRIB ATTENDANT	clerical	380	TRUSS BUILDER, CONSTRUCTION	construction
430	TORCH STRAIGHTENER AND HEATER	any industry	320	TUBE ASSEMBLER, CATHODE RAY	electron. comp.
221	TOUCH-UP PAINTER, HAND	any industry	221	TUBE BENDER, HAND	any industry
482	TOWER ERECTOR	construction	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	Group No.	Occupation	Industry
230	TYPESETTING MACHINE TENDER	print. & pub.	380	WATER METER INSTALLER	waterworks
112	TYPIST	clerical	332	WATER PUMP TENDER	any industry
212	ULTRASOUND TECHNOLOGIST	medical ser.	460	WATER SOFTENER SERVICER AND INSTALLER	business ser.
214	UMPIRE	amuse. & rec.	332	WATER TREATMENT PLANT OPERATOR	waterworks
110	UNDERWRITER, MORTGAGE LOAN	financial	481	WAYSMAN	ship-boat mfg.
321	UPHOLSTERY REPAIRER	furniture	230	WEAVER, TEXTILE	nonmet. min.
110	URBAN PLANNER	profess. & kin.	330	WEB PRESS OPERATOR HELPER, OFFSET	print. & pub.
370	USED CAR RENOVATOR	retail trade	330	WEB PRESS OPERATOR	print. & pub.
240	USHER	amuse. & rec.	360	WEIGHER, PRODUCTION	any industry
330	UTILITY OPERATOR	saw. & plan.	214	WEIGHER, SHIPPING AND RECEIVING	clerical
320	VACUUM CLEANER REPAIRER	any industry	240	WEIGHT REDUCTION SPECIALIST	personal services
351	VACUUM CLEANER OPERATOR, INDUSTRIAL	any industry	460	WELDER HELPER	welding
250	VALET, PARKING	automotive serv.	430	WELDER, ARC	welding
330	VARIETY SAW OPERATOR	woodworking	370	WELDER, COMBINATION	welding
112	VARTYPE OPERATOR	clerical	370	WELDER, GAS	welding
214	VAULT CASHIER	business ser.	370	WELDER, GUN	welding
213	VENDOR	amuse. & rec.	370	WELDER, PRODUCTION LINE	welding
340	VENETIAN BLIND CLEANER AND REPAIRER	any industry	430	WELDER, TACK	welding
311	VETERINARIAN	medical ser.	380	WELDER-FITTER	welding
311	VETERINARIAN, LABORATORY ANIMAL CARE	medical ser.	330	WELDING MACHINE OPERATOR, ARC	welding
311	VETERINARY TECHNICIAN	medical ser.	480	WELL DIGGER	construction
212	VIDEOTAPE OPERATOR, STUDIO	radio-tv broad.	480	WELL PULLER	petrol. & gas
110	VOCATIONAL REHABILITATION CONSULTANT	government ser.	480	WELL DRILL OPERATOR	construction
212	VOICE PATHOLOGIST	profess. & kin.	480	WELL DRILL OPERATOR HELPER	construction
221	WAFER FAB OPERATOR	electron. comp.	320	WHEEL LACER AND TRUER	motor-bicycles
322	WAITER/WAITRESS	hotel & rest.	482	WIND GENERATING ELECTRIC POWER INSTALLER	construction
480	WALLPAPER REMOVER, STEAM	construction	482	WIND TURBINE TECHNICIAN	construction;
360	WAREHOUSE WORKER	any industry	330	WINDER	utilities
331	WASHER, MACHINE	any industry	460	WINDER OPERATOR, FLOOR COVERINGS	paper goods
340	WASHER, MACHINE	laundry & rel.	230	WINDER, MAGNETIC TAPE	fabrication
460	WASHING MACHINE LOADER AND PULLER	laundry & rel.	330	WINDER, YARN	recording
460	WASTE DISPOSAL ATTENDANT, RADIOACTIVE	any industry	330	WINDING-MACHINE OPERATOR, CLOTH	tex. prod., nec
332	WASTE TREATMENT OPERATOR	chemical	341	WINDOW CLEANER	textile
332	WASTEWATER TREATMENT PLANT OPERATOR	sanitary ser.			any industry
220	WATCH REPAIRER	clock & watch			

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

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

PART C – OCCUPATIONAL GROUP CHARACTERISTICS

Group 110

Professional Occupations	Spine Shoulder Elbow Wrist Finger motion. Grip Leg Psych	C C D D F D D J
Some use of keyboards but less than 112 or 112; greater standing and walking demands than 112 and 120.		

Typical occupations: Lawyer, Loan Officer, Urban Planner

Typical occupations: Billing Clerk, Computer Keyboard Operator, Secretary

Grip E
Leg C
Psych I

Group 111

Professional and Clerical Occupations	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	C D F G G E D I
Substantial use of keyboards; greater demands for standing and walking than 112 and 120.		

Typical occupations: Accountant, Claims Clerk, Reservations Agent

Typical occupations: Electrical drafter, Illustrator, Jeweler

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

Group 112

Mostly Clerical Occupations	Spine Shoulder Elbow Wrist Finger motion	D D G H I
Highest demand for use of keyboard; prolonged sitting.		

Typical occupations: Actor, Announcer, Clergy member

Group 120

Most Technical Occupations
Precision work requiring skill and dexterity; use of hand tools; more sitting than 110 and 111.

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

Group 210

Mostly Professional Occupations
Extensive speech and hearing; standing and sitting; may require driving to business locations; other physical demands at the lower end of the light category.

Spine D
Shoulder C
Elbow D
Wrist D
Finger motion E
Grip C
Leg E
Psych I

Group 211

Mostly Clerical Occupations
 Emphasis on frequent fingering, handling, and possibly some keyboard work; spine and leg demands similar to 210.
 Typical occupations: Bank clerk, Inventory clerk, License clerk

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

Typical occupations: Airplane Inspector, Meter Reader, Property Manager

Group 212

Mostly Professional and Medical Occupations
 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.
 Typical occupations: Chemist, Dialysis Technician, Secondary School Teacher

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

Clerical (physically active) Occupations; Educators, & Retail Sales Occupations

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

Very high demand for speech, hearing and vision; high demand for fingering and handling; spine and leg demands at highest level for 200 series.

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

Group 213

Mostly Professional Occupations
 Work performed indoors and outdoors; occasional climbing and uneven ground required, therefore spine and legs have slightly higher variants for this strength level.

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

Fine precision Occupations in medical, electronic and optical industries

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

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.

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

Group 221

Light Assembly Occupations, Food Preparation Occupations

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.

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

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

E
F
G
G
G
F
E
F

Parking Lot Attendant, booth, Weight Reduction Specialist

Group 230

Machine Operator and Tenders

Average demands for this strength level on spine and legs; hand activities are most significant.

Typical occupations: Bottle Packer, Circular Saw Operator' Offset Press Operator

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

E
F
F
F
G
G
E
F

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

Group 240

Mostly Attendants (providing services)

Minimal hand activities; low on arm activities; average for 200 series on spine and legs.

Typical occupations: Host/Hostess,

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

E
D
E
E
E
D
E
G

Group 250

Public Transportation Drivers & Light Delivery Drivers

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.

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

F
F
G
F
F
F
F
H

Group 251

Outside Sales, Inspectors, & Business Agents (performing extensive driving to reach business locations)

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 than 250.

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

E
D
F
E
F
F
E
I

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

Group 290

Personal Attendants
Vision important; cosmetic appearance important; arms variants at high end for 200 series.
Typical occupations: Hair Stylist

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

E
G
G
H
G
F
E
H

Group 310

Medical Occupations
Low end of 300 series for most parts of body; head disabilities, including speech, hearing, PTHS are highest in 300 series.
Typical occupations: Acupressurist, MRI Technologist, X-ray Technologist

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

F
F
F
F
F
F
F
I

Group 311

Mostly Medical Occupations
Medical treatments performed result in higher spine demands; head disabilities are at the highest levels.
Typical occupations:
Masseur/Masseuse Nurse – LVN, Psychiatric Technician

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

G
F
G
G
G
F
F
J

Group 320

Assemblers
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.
Typical occupations: Machinist, Office Machine Servicer, Television & Radio Repairer

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

F
F
H
I
H
H
F
H

Group 321

Assemblers
Use of hand tools required; precision requirements less than 320 – arm variants slightly lower; same demand on spine and legs as 320 & 322.
Typical occupations: Furniture

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

F
F
G
H
G
G
F
F

Assembler, Garment Cutter, machine Painter, spray gun	Observation and control of machinery; occasional stooping required; mechanical adjustments performed; variants similar to 332.	Elbow Wrist Finger motion Grip Leg Psych	F F F F F F
	Typical occupations: Coating Machine Op, Mixing Machine Op, food prep; Washer, machine		

Group 322

Food Preparation and Service Occupations	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	F F G G G G F 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 Shoulder Elbow Wrist Finger motion Grip Leg Psych	F F F E F F F 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.		

Group 330

Press Operators, Sawyers, etc.	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	F F G F G G F 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 Shoulder Elbow Wrist Finger motion Grip Leg Psych	G F G F F F G 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		

Group 331

Machine Tending & Processing	Spine Shoulder	F F

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

Group 341

Cleaners (working at high levels)
 Work generally performed at high levels – higher end of 300 series for spine & legs; average demands on arms.
 Typical occupations: Aircraft Service Attendant, Sign Poster, Window Cleaner

Group 350

Truck Drivers
 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.
 Typical occupations: Armored Car Driver, Lunch Truck Driver, Truck Driver

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

Group 351

Heavy Equipment Operators
 Operates heavy construction equipment at work sites; arm demands at lower end of 300 series; spine & leg demands at higher end of 300 series.

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

Group 360

Porters, Packers
 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.

Spine	G
Shoulder	G
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
 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

Spine	G
Shoulder	G
Elbow	I
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

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

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

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

H
H
I
J
H
H
I
H

Group 420

Meat Processing +

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

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

H
G
H
I
G
H
G
F

Group 430

Machine-assisted Metal Shaping

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

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

H
H
I
H
H
H
H
G

Group 460

Material Handlers & Machine Loaders & Unloaders

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,

Spine
Shoulder
Elbow
Wrist
Finger motion
Grip
Leg
Psych

H
G
G
G
F
G
H
E

Group 470

Installers & Repairers

Strenuous demands on all parts of body – variants are at the higher end of the 400 series.

Typical occupations: Household Appliance Installer, Maintenance Mechanic, Television Technician

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

Group 481

Skilled Construction Workers

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).

Typical occupations: Cable Television Installer, Millwright, Pipe Fitter

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

Group 480

Construction Helpers, Oil Field Workers & Some Skilled Construction Workers

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.

Typical occupations: Carpenter Helper; Laborer, construction; Roughneck

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

Group 482

Skilled Construction Workers

Construction and maintenance work performed at high and dangerous levels – balance required; demands on spine & legs similar to 590; very strenuous use of arms.

Typical occupations: Bridge Maintenance Worker, Grip (movie industry), Tree Trimmer

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

Group 490

Mostly Sworn Officers – Police & Fire (legal presumptions apply)

Workers called upon to perform demanding activities in unpredictable and dangerous circumstances;

Spine	I
Shoulder	I
Elbow	I
Wrist	H
Finger motion	H
Grip	I

significant demands on all parts of body.	Leg Psych	I J	Group 493	Mostly Professional Athletes Substantial athletic performance required but less arduous than Group 590 Typical occupations: Bowler, professional, Ski instructor, Aerobic instructor	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	H H H H G H I H
Typical occupations: Fire Fighter, Paramedic, Police Officer						
Group 491						
Agricultural & Livestock Workers	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	H G G G F G H D				
Work requires tending the land and/or caring for animals; physical demands & variants similar to 460 but slightly lower in mental demands.			Group 560	Mostly Material Handlers Requires lifting of large and/or very heavy objects or exerting very significant force – very strenuous demands placed on spine & legs.	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	J H H H G H I D
Typical occupations: Dog Catcher; Farmer, General; Gardener						
Group 492						
Logging & Fishing Occupations	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	I H H H G H I E		Typical occupations: Ambulance Attendant; Furniture Mover; Garbage Collector, manual		
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.			Group 590	Mostly Professional Athletes Peak athletic performance requiring whole body strength with specialized training and skills; highest variants for all parts of the body.	Spine Shoulder Elbow Wrist Finger motion Grip Leg Psych	J J J J I J J I
Typical occupations: Bucker, Logger, all-round				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.

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.

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.

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:

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 protocols¹ for combining individual finger impairments into one overall hand impairment. The hand impairment for this example is 18%.
2. Convert hand impairment² 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. Combine³ shoulder impairments.
4. Convert overall shoulder impairment to whole person scale

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

4. Convert overall shoulder impairment to whole person scale

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

5. Apply earning capacity, occupation and age adjustments⁴ to hand and shoulder ratings:

Hand: 16.05.01.00 – 10 – [1]11 – 351G – 13 – 11 PD

Shoulder: 16.02.02.00 – 18 – [7]24 – 351G – 27 – 24 PD
6. Combine adjusted ratings for hand and shoulder to obtain final disability.

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

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:

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-on⁵

¹ See Chapter 16 of the AMA Guides, 5th edition for protocols.

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

³ 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.

⁴ Rating adjustments and formulas are explained in Section 1 of this Schedule starting on page 1-3.

⁵ See Section 1 of PDRS, page 1-12, for information regarding add-on's for pain.

- Convert individual impairments⁶ to the whole person scale.

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

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

- Apply 3% add-on for pain.

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

- Apply earning capacity, occupation and age adjustments⁷ to each whole person impairment.

L leg amp.: 17.01.02.02 – 35 – [5]45 – 351G – 48 – 44 PD

L knee motion: 17.05.04.00 – 14 – [2]16 – 351G – 18 – 16 PD

- Combine⁸ the adjusted impairments for the left leg.

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

- 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%.

$$17.01.02.01 – 40 – [5]51 – 351G – 54 – 50 PD$$

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

⁷ Rating adjustments and formulas are explained in Section 1 of this Schedule starting on page 1-3.

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

- 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 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 = 80% LE

Limited motion of left knee = 35% LE

Pain in stump is substantially aggravated by performing ADL's = 3% add-on⁹

Limited motion of right knee = 8% LE

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

$$15.03.01.00 – 10 – [5]13 – 351G – 15 – 13 PD$$

⁹ See Section 1 of PDRS, page 1-12, 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%.

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

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

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

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.

