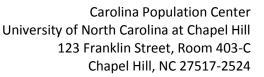
Add Health Wave IV

Wave IV Data Documentation

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Wave IV Data Documentation

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I. Introduction

Sample

The Wave IV data set contains follow-up interviews from 15,701 Wave I respondents. The Wave IV fielded sample consisted of 19,962 of the original 20,745 Wave I respondents. Respondents who were confirmed deceased (N=96) at Wave III and the 687 cases not sampled at Wave III were excluded. Of the 19,962 cases, 80.25% consented to participate in Wave IV. Cases ineligible at Wave IV were sample members who had moved out of the country (N=184), or who were on active duty military stationed out of the country for the duration of the field work (N=87), or who were deceased (N=126).

Pretest - Main Study

The Wave IV pretest was conducted in 3 states during April, May, and early June of 2007 with Add Health respondents. Minor modifications were made to the study protocols and interview questions based on information gained from the pretest for the main study which began in January 2008 and continued through early February 2009. Of the 15,701 interviews, 193 are from the pretest with the remaining interviews being completed during the main study.

Interviews

Wave IV interview questions were administered on laptop computers using Blaise Survey Software. This computer assisted interviewing (CAI) software allows for conditional routing, validity and range checks, computations, hierarchical questionnaire models, and linking to external files, all of which were employed by Add Health for Wave IV. The advanced level of the Blaise software allowed Add Health to collect complex tables of data, such a household rosters and relationship data, and then display the tables back for the respondents to review and correct as necessary. The majority of the interviews were conducted at the respondents' homes. Other interview locations include respondents' work locations, restaurants and coffee shops, libraries, and parent or friend residences.

Biomarkers

Biomarker data were also collected at Wave IV. Height, weight, and waist circumference were measured; blood pressure and pulse measurements were taken; and dried blood spots and saliva samples were collected. Detailed information on the equipment used and the protocols followed for the biomarker collection will be provided in separate reports.

Prison Interviews

Attempts were made at Wave IV to interview all sample members who were incarcerated. Procedures were developed to obtain permission from federal, state, and local authorities to conduct the interviews. Due to the length of time required to obtain approval of the requests from the authorities, some respondents who were located in prison at the end of field work could not be interviewed. Of the 183 incarcerated sample member, 73 were interviewed. Interviews were not conducted where the prisoner's privacy could not be guaranteed. IRB and prison regulations limited the biomarkers that could be requested and the questions that could be asked. The codebooks provide information on which questions and biomarkers were obtained from prisoners.

II. Questionnaire Sections

Section Contents Variable Prefix Section 1: Overview and Demographics H4OD H4WP Section 2: Parental Support and Relationships Section 3: Relationships with Siblings H4WS H4GH Section 4: General Health and Diet Section 5: Access to Health Services, Health Insurance H4HS Section 6: Illness, Medications, and Physical Disabilities H4ID Section 7: Sleep Patterns H4SP Section 8: Household Roster and Residence History H4HR H4ED Section 9: Education Section 10: Military H4MI Section 11: Labor Market H4LM Section 12: Economics H4EC Section 13: Religion and Spirituality H4RE Section 14: Social Psychology and Mental Health H4MH Section 15: Sexual Experiences and Sexually Transmitted Diseases* H4SE Section 16: Relationships H4TR Section 17: Relationships in Detail* H4RD Section 18: Pregnancy Table** H4PG Section 19: Live Births* H4LB Section 20: Children and Parenting* H4KK Section 21: Criminal Offending and Victimization* H4DS Section 22: Involvement with Criminal Justice System* H4CJ Section 23: Tobacco, Alcohol, Drugs* H4TO Section 24: Mistreatment by Adults* H4MA Section 25: Daily Activities H4DA Section 26: Personality H4PE Section 27: Biospecimen Participation H4 (varies) Section 28: Field Interviewer's Report H4IR Section 29: Field Interviewer's Environmental Assessment H4EO

^{*}Self administered section

^{**}Self administered with some interviewer administered questions

III. Data Cleaning

General Recodes

Respondents were allowed to give a response of don't know or refused to any question. The following reserve codes are used throughout the Wave IV data to represent these responses.

6, 96, 996, 9996 = refused

8, 98, 998, 9998 = don't know

In addition, the following consistency codes are used.

5, 95, 995, 9995 = question not asked at pretest

7, 97, 997, 9997 = legitimate skip

Data inconsistencies in the questionnaire have not been recoded but are noted at the end of the codebook.

Soft checks and hard checks were used when seemingly implausible responses were given to open ended questions. A soft check would display the potentially out of range answer with an accompanying message and ask the respondent or interviewer to verify that it was correct. If verified, the answer was accepted and the interview continued, but if not verified, the question was asked again before continuing with the interview. For example, if the answer to the question "How many brothers and sisters do you have, both living and deceased?" was greater than 15, the soft check "Please confirm the number of siblings reported" was used to confirm the response. Hard checks were used when an open-ended response could not be correct. A hard check required that the response be changed before allowing the interview to continue. The hard check for the year of death of a respondent's mother could not exceed the current year, therefore the message "Year biological mother died cannot be later than current year" was displayed to identify the problem with the response. In addition to soft and hard checks, a valid range of responses was programmed for all questions.

Break Off Interviews

If an interview terminated before Section 27: Biospecimen Participation was completed and was resumed more than 24 hours later, questions already asked that could potentially impact the interpretation of the biospecimen results were asked again. A flag variable (BREAK_Q) identifies these cases. For the cases where BREAK_Q = 1, the initial responses to the pertinent questions have been replaced with the responses that are within 24 hours. There are five cases where some of the questions should have been repeated but due to a programming error were not. Questions for these respondents that were asked within this 24 hour time period are indicated by the value of the variable BREAK_Q. The variables that were recoded based on responses to the repeated questions in Section 27 are listed below.

H4TR7	Are you pregnant now?
H4GH3M	What is the date (month) when your last menstrual period began?
H4GH3D	What is the date (day) when your last menstrual period began?
H4GH3Y	What is the date (year) when your last menstrual period began?
H4GH4A	What is your best guess about how long ago your last menstrual period began? (enter the number of days, weeks, or months)

H4GH4B	What is your best guess about how long ago your last menstrual period began? (select days, weeks, or months as indicated by respondent)			
H4DA11	In the past 24 hours, have you participated in vigorous physical activity long enough to work up a sweat, get your heart thumping, or get out of breath?			
H4DA12H	At what time (hour) in the past 24 hours did you last finish participating in vigorous physical activity?			
H4DA12M	At what time (minute) in the past 24 hours did you last finish participating in vigorous physical activity?			
H4DA12T	At what time (am/pm) in the past 24 hours did you last finish participating in vigorous physical activity?			
H4GH12H	At what time (hour) did you last eat or drink anything other than water including sugar-containing candy or gum?			
H4GH12M	At what time (minute) did you last eat or drink anything other than water including sugar-containing candy or gum?			
H4GH12T	At what time (am/pm) did you last eat or drink anything other than water including sugar-containing candy or gum?			
H4GH13	Did you drink a caffeinated beverage (e.g., coffee, tea or soda) in the past 24 hours?			
H4GH14H	At what time (hour) did you last drink a caffeinated beverage?			
H4GH14M	At what time (minute) did you last drink a caffeinated beverage?			
H4GH14T	At what time (am/pm) did you last drink a caffeinated beverage?			
•	If any of the following conditions in the last four weeks? Mark all that apply. It is to break off time frame] Gum disease (gingivitis; periodontal disease) or tooth loss because of cavities Active infection Injury Acute illness Surgery Active seasonal allergies (hay fever) NONE			
•	If any of the following conditions in the last two weeks? Mark all that apply. If st visit" is the break off time frame] Cold or Flu-like symptoms such as sore throat, runny nose, or cough Fever Night sweats Nausea or vomiting or diarrhea Blood in stool (feces) or in urine Frequent urination			

H4ID10G Skin rash or abscess H4ID10H None of the above

Has a doctor, nurse or other health care provider ever told you that you have or had:

["Since our last visit..." is the break off time frame]
H4ID5A cancer or lymphoma or leukemia

H4ID5B high blood cholesterol or triglycerides or lipids

H4ID5C high blood pressure or hypertension

H4ID5D high blood sugar or diabetes

H4ID5E heart disease

H4ID5F asthma, chronic bronchitis or emphysema

H4ID5G migraine headaches

H4ID5H depression

H4ID5I post-traumatic stress disorder or PTS

H4ID5J anxiety or panic disorder

H4ID5K epilepsy or another seizure disorder H4ID5L attention problems or ADD or ADHD

H4ID5M HIV/AIDS H4ID5N Hepatitis C

H4ID11 In the past 24 hours, have you taken aspirin or aspirin-containing medications

including cold and allergy medications or headache powders? Do not include acetaminophen for example, Tylenol or ibuprofen for example, Advil, Motrin or Nuprin. Some examples of aspirin-containing medications include: Anacin, Aspirin, B.C.Backache Relief Extra Strength, Bayer, Excedrin, Goody's Pain

Relief, Pain Reliever Added Strength, Vanquish

H4ID12 In the past 24 hours, have you taken other anti-inflammatory medications? Do

not include acetaminophen for example, Tylenol or aspirin-containing

medications. Some examples of those include: Advil, Aleve, Ibuprofen, Motrin,

Naproxen, Nuprin

H4TO31 Did you smoke cigarettes, cigars, a pipe or use chewing tobacco within the past

24 hours?

H4TO32H At what time (hour) did you last smoke cigarettes, cigars, a pipe or use chewing

tobacco?

H4TO32M At what time (minute) did you last smoke cigarettes, cigars, a pipe or use

chewing tobacco?

H4TO32T At what time (am/pm) did you last smoke cigarettes, cigars, a pipe or use

chewing tobacco?

H4TO41 Did you have an alcoholic drink (beer, wine, or liquor) within the past 24 hours?

H4TO42H At what time (hour) did you last have an alcoholic drink?

H4TO42M At what time (minute) did you last have an alcoholic drink?

H4TO42T At what time (am/pm) did you last have an alcoholic drink?

H4TO72 Have you used marijuana within the past 24 hours?

H4TO73H At what time (hour) did you last use marijuana?

H4TO73M At what time (minute) did you last use marijuana?

H4TO73T At what time (am/pm) did you last use marijuana?

Prison Cases

At Wave IV, 73 interviews were conducted in a prison or jail. The variable PRISON4 identifies these interviews. Not all questions were asked of prisoners, either due to IRB protocol or applicability of the question to the respondent. These questions are coded as legitimate skips for prison respondents. No interviews were conducted in prison during the pretest, but three pretest interviews were incorrectly marked as prison cases. Three main study interviews completed in a prison were not flagged as prison cases before the interview began. As with the pretest cases, the questions controlled by the PRISON4 variable have been recoded to follow the correct (prison) path and to assign these respondents the correct prison flag.

Pretest - Main Study Questionnaire Differences

After a review of the pretest data, some questions and/or response categories were revised for the main study. Below are the *pretest* versions of the questions that were revised for the main study.

Section 2, Questions 25 (H4WP25) and 39 (H4WP39)

25/39. Has your (mother figure/father figure) given you any money or bought you something or helped pay living expenses for you that cost more than \$50 during the past 12 months?

Section 2, Questions 26 (H4WP26) and 40(H4WP40)

26/40. Have you given your (mother figure/father figure) any money or paid for something for her that cost more than \$50 during the past 12 months?

Section 6, Question 23 (H4ID23), additional response category added for the main study 23. In the past 12 months, have you had any problem with your voice? By any problem, we mean was there any time when your voice was hoarse, raspy, breathy, weak, or, generally, did not work, perform, or sound as you feel it normally would?

1=Yes

2=No

Section 6, Questions 24 (H4ID24), 25(H4ID25), and 26(H4ID26), response categories changed for the main study

24. In the past 12 months, how often has your voice been hoarse, raspy, or breathy?

25. In the past 12 months, how often have you had difficulty being heard or trouble projecting your voice?

26. How often does a problem with your voice affect your personal, social, or working (professional) life?

1=always

2=usually

3=about half the time

4=seldom

5=never

Section 11, Question 22 (H4LM22), 4 pretest questions combined

24A. On average, how many hours a week at your (current/most recent) primary job (do/did) you spend standing, doing hard physical work, for example, doing construction work?

24B. On average, how many hours a week at this job (do/did) you spend standing, doing

moderate physical

24C. On average, how many hours a week at this job (do/did) you spend standing, doing light physical work, for example, standing at a counter, teaching, working at a conveyer belt?

24D. On average, how many hours a week at this job (do/did) you spend seated, for example, using a computer or driving?

IV. Occupational Coding

The 2000 Standard Occupational Classification (SOC) system was used to classify Add Health respondents' first full-time job and their current/most recent paying job that was at least 10 hours per week, excluding military service. The SOC version used at Wave IV was created on December 4, 2001 by the Bureau of Labor Statistics', downloaded from their web site in 2007.

Pretest respondents were asked the questions "What kind of work did you do at your first full time job?" and "What kind of work (do/did) you do in this job?" Using the recorded open-ended responses to these questions, the occupations for pretest respondents were coded following the SOC classification scheme at the end of data collection. During the main study interview, respondents were guided through the four SOC levels - major group, minor group, broad occupation, and detailed occupation - by the interviewer until the appropriate job title was identified. For both groups, the resulting job code is represented by a six digit character variable in the SOC format XX-XXXX. The first two digits represent the major group, the third digit represents the minor group, digits four and five represent the broad occupation, while the sixth digit represents the detailed occupation. Appendix B contains the SOC codes and text descriptions as published by the Bureau of Labor Statistics on their web site at http://www.bls.gov/soc/socstruc.pdf.

APPENDIX A

Consent for Participation in: IRB Study #: 05-1164 National Longitudinal Study of Adolescent Health (Add Health), Wave IV Principal Investigator: Kathleen Mullan Harris

Because of your past participation in the National Longitudinal Study of Adolescent Health, or *Add Health*, you are being asked to take part in the study's fourth wave of interviews. This wave is being conducted by the Research Triangle Institute (RTI) for the Carolina Population Center at the University of North Carolina at Chapel Hill (UNC-CH). This research study is funded by the National Institutes of Health in Washington, DC. Participating in Wave IV of Add Health is voluntary. Deciding not to be in Wave IV or stopping your participation before it is completed will not affect your relationships with the researchers or the University of North Carolina at Chapel Hill.

Details about Wave IV of Add Health are described below. It is important that you understand this information so that you can make an informed choice about being in Wave IV. You will be given a copy of this consent form, which includes telephone numbers in case you think of questions later. You should ask the researchers or staff members from RTI any questions you have about the study at any time.

What is the purpose of Wave IV?

As you may remember, Add Health was originally designed to help researchers understand the causes of adolescent health, and how they are affected by contexts such as schools, friends, and neighborhoods. Researchers have returned to you and other participants to learn more about how adolescent experiences and health may affect your experiences and health as an adult. The goal of Wave IV is to study the causes of health across the life course from the teenage years to young adulthood, and to understand how biological, social, and environmental factors contribute to health over this long time span. If you decide to take part in Wave IV, you will be one of almost 20,000 people who participate.

How long will your part in Wave IV last?

If you consent to all parts of Wave IV, the interview and other activities will take about two hours. The interview itself will take about an hour and a half. Collection of biological measurements and samples (a saliva sample and blood drops, as described below) will take approximately 30 minutes.

A small percentage of participants will be recontacted to confirm that the information collected is accurate and/or to participate in a brief follow-up study. You will be asked separately about your willingness to participate in the follow-up. It is also possible that you will be contacted again in a few years to participate in a future wave of the Add Health study.

What will happen if you take part in Wave IV of Add Health?

If you agree, you will work with a professional interviewer to complete a questionnaire about your school and work experience, relationships with family, spouses/partners and children, and

your general emotional and physical health. Many of these questions are similar to questions you have been asked before in Add Health interviews. You will also be asked about your daily activities, health-related behaviors, and health care access. Some of the questions are sensitive in nature, such as questions about romantic relationships and drug use. For the questions that are sensitive, the interviewer will ask you to read the questions to yourself and record your responses directly into the computer without the interviewer seeing your answers.

The interviewer will also measure your height, weight, waist circumference, blood pressure and pulse, and use a global positioning device to record the latitude and longitude of your home. You will also be asked to provide a saliva sample and blood drops from a finger-stick, as described below.

If you have served in the military, we will ask you to provide your Social Security number so we can obtain information from your military service record. We may also request your Social Security number for use in contacting you again at future waves of the Add Health study. You are not required to disclose your Social Security number. It is requested only for the purpose of obtaining your military service record and/or contacting you again in the future.

You may skip any questions you do not want to answer, you may decline to participate in any activity or to provide biological samples (saliva or blood drops), and you may stop the interview at any time.

Biological Samples and their Collection

Saliva for DNA: If you agree, you will collect a saliva sample by spitting into a small funnel connected to a storage tube. The DNA obtained from this sample will be used to examine multiple normally occurring variations in 10 candidate genes thought to be related to health and behavior. The results of these tests will be used to understand how variations in genetic makeup, in combination with environment and life experiences, may contribute to long term health. An ID number will be on the storage tube, but the ID number associated with the storage tube is different from the one associated with your interview responses.

Blood Sample: If you agree, 7 blood drops will be collected from a finger-stick and saved on special filter paper. To obtain the blood drops, your trained interviewer will first clean your middle or ring finger with alcohol, then apply a rubber strap around your upper arm and prick your finger with a sterile, disposable micro-lancet. He or she will then place 7 drops of blood onto special filter paper for drying. These drops will be tested for several compounds (cholesterol, C-reactive protein, and Epstein-Barr virus antibodies) that are related to metabolic and cardiovascular health. The results of these tests will be used to understand how health related behaviors and life experiences may contribute to long term health. Only an ID number will identify the blood drops. The ID number associated with the filter paper is different from the one associated with your interview responses.

If the prick does not yield enough blood for the tests described above, you will be asked to consent to a second prick. You may decline the second prick. Declining the second prick does not affect your monetary incentive.

The tests described above are not diagnostic tests to detect disease. They are intended only to understand long term causes of health.

Option of Long Term Storage of Samples

The tests described above will not use up all of the **DNA or blood drops**. Therefore, in addition to the procedures and tests named above, you are being asked to give permission for the remaining DNA and blood drops to be stored and analyzed for future research studies. These future studies would also be related to long term health, but would not be diagnostic tests to detect disease. Future studies would be reviewed and approved by a human subjects protection committee. No information will be released to other researchers that would allow them to connect your name or other identifying information to the DNA or blood drops.

If you agree to storage, the **DNA** would be stored indefinitely at the Institute for Behavioral Genetics at the University of Colorado at Boulder. Because the researchers there do not have access to the names of study participants, it will NOT be possible for researchers to destroy the DNA later at your request.

If you agree to storage, the **blood drops** would be stored indefinitely at the University of North Carolina at Chapel Hill (UNC-CH). Because the researchers at UNC-CH who will store the samples do not have access to the names of study participants, it will NOT be possible for researchers to destroy the blood drops later at your request.

You have the option to consent to the collection of samples for the tests named above, but to refuse to allow storage of the samples after those tests have been completed. If you do not agree to store the samples, it will not affect your participation in the rest of Wave IV, your monetary incentive for providing the DNA or the blood drops, your relationship with the researchers, or your relationship with the University of North Carolina at Chapel Hill.

What are the possible benefits from being in this study?

This research is designed to benefit society by gaining new knowledge. Information from previous Add Health interviews has made significant contributions to our understanding of the health and life experiences of young people. For example we have discovered the important roles that parents, siblings, friends, classmates, and neighborhoods play in the health and development of young people. Other than the monetary incentive, you will not benefit personally from being part of this study.

Because the information collected in Add Health is not relevant for individual diagnosis or treatment, we will not share any results of analyses of your answers or biological tests with you. However, you will receive some general health information and recommended follow-up instructions based on the results of your blood pressure reading.

What are the possible risks or discomforts involved with being in Wave IV?

The interview questions and measurements should cause little risk or discomfort. There is no physical discomfort from saliva collection. There may be a small amount of discomfort from the finger prick and the rubber strap that will be used to collect blood drops. If the strap feels too tight, we will loosen it or remove it. There is a small risk of fainting or bruising, and a very rare risk of infection from the blood collection. We do not anticipate any risks from longer term storage and analysis of your specimens, except the very unlikely risk of breaching privacy of the information collected from you and other respondents. Add Health's strict privacy protections are described below.

Will it cost you anything to give the samples?

There is no cost to you for the analysis of any of the samples or for the storage of the DNA or blood drops.

Will you receive anything for being in Wave IV of Add Health?

If you complete the **questionnaire** you will receive a monetary incentive of \$40. If you provide the **saliva sample for DNA** analysis you will receive a monetary incentive of \$30. If you provide the **blood drops** you will receive a monetary incentive of \$30.

How will your privacy be protected?

Add Health has always attempted to protect privacy to the greatest extent possible. Your answers, measurements, and test results will be held in strict privacy by the Add Health and RTI project staff and not given to unauthorized persons. Extensive security procedures are in place to make sure that participants' answers are not linked to their names. Your name will not be reported with your responses or test results; these data are labeled only with an ID number. Similarly, no names or other identifying information will be stored with the DNA or blood drops. Only an ID number will identify the samples. This ID number is different from the one associated with your interview responses. Researchers and technicians at the laboratories that will conduct the tests do not have access to your identifying information.

If you consent to long term storage, the DNA will be stored at a secure building at the Institute for Behavioral Genetics in Boulder and the blood drops will be stored at a secure building leased by UNC-CH.

After data collection and cleaning are completed, your identifying information will be electronically transmitted to the Add Health Security Manager in Canada, and your interview answers without identifying information will be sent to the Add Health project staff at the University of North Carolina at Chapel Hill. Storing different types of information in different places helps keep your identity confidential.

All analyses concern groups of persons, not specific individuals. No individuals will be identified in any report or publication that uses any data from Add Health.

Occasionally, information from research projects such as Add Health is audited by representatives of UNC-CH, research sponsors, or government agencies for purposes such as quality control or safety.

Although every effort will be made to keep research records private, it is not possible to guarantee that personal information will never be disclosed. However, the Add Health researchers and UNC-CH have taken all possible precautions to protect the privacy of personal information. Add Health has obtained a federal Certificate of Confidentiality from the National Institutes of Health. It allows Add Health researchers to refuse to disclose identifying information in any proceeding, if the information could have adverse consequences for research participants or damage their financial standing, employability, insurability, or reputation.

Who owns the biological samples?

The DNA and blood drops obtained in this study are the property of the National Longitudinal Study of Adolescent Health (Add Health), of the University of North Carolina at Chapel Hill. You are giving the DNA and blood drops for research purposes. It is extremely unlikely that any

commercial products would be developed from these samples as part of this research. Giving the samples does not give you the right to benefit from any commercial products that may be developed in the future, but you do not give up any of your rights by signing this form.

What if you have questions about Add Health?

You have the right to ask, and have answered, any questions you may have about this research. If you have questions later, you should contact the Principal Investigator of this research study: Kathleen Mullan Harris, Carolina Population Center, CB #8120, University of North Carolina at Chapel Hill, Chapel Hill, NC, 27599-8120. Phone: 1-877-377-9607 (a toll-free number).

What if you have questions about your rights as a study participant?

All research on human volunteers is reviewed by a committee that works to protect your rights and welfare. If you have questions or concerns about your rights you may contact the Institutional Review Board at UNC-CH at (919) 966-3113 or by email at IRB_subjects@unc.edu. If you wish, you may call the Institutional Review Board collect. You may also contact RTI's Office of Research Protection in Durham, NC at (919) 316-3358 or 1-866-214-2043 (a toll-free number). You may contact either committee anonymously if you wish.

Consent for Participation in: IRB Study #: 05-1164 National Longitudinal Study of Adolescent Health (Add Health), Wave IV Principal Investigator: Kathleen Mullan Harris

Please write your initials next to your choice for each of the samples below. You may make different decisions for each sample if you desire.

DNA to be stored and used for as- involve additional genes or genetic term health. bI agree to provide saliva f for my DNA to be stored for future	or the DNA tests described above AND eyet-unspecified tests in the future. The markers that may be related to behavior the DNA tests described above, but use. I request that my DNA be dispose applicated and confirmed	se tests would or and long do NOT agree			
tests described above have been c I do NOT agree provide a					
Blood Drops aI agree to provide blood drops for the tests described above AND agree for my blood drops to be stored and used for as-yet-unspecified tests in the future. These tests would relate to cardiovascular fitness and other aspects of health, and may include DNA analysis. bI agree to provide blood drops for the tests described above, but do NOT agree for these drops to be stored for future use after the tests described above have been completed. I request that my blood drops be disposed of after the tests described above have been completed and confirmed. cI do NOT agree to provide blood drops.					
Participant's Agreement:					
I have read the above information and have been given the opportunity to ask questions. I voluntarily agree to participate in Add Health Wave IV. I have indicated above my decisions concerning the collection, analysis, and long term storage of biological samples. I have been given a copy of this consent form.					
Signature of Research Participant	Printed Name of Research Participant	Date			
Signature of Interviewer Obtaining Consent	Interviewer ID	Date			

Appendix B

SOC Structure

11-0000 Management Occupations 11-1000 Top Executives 11-1010 Chief Executives 11-1011 Chief Executives 11-1020 General and Operations Managers 11-1021 General and Operations Managers 11-1030 Legislators 11-1031 Legislators 11-2000 Advertising, Marketing, Promotions, Public Relations, and Sales Managers 11-2010 Advertising and Promotions Managers 11-2011 Advertising and Promotions Managers 11-2020 Marketing and Sales Managers 11-2021 Marketing Managers 11-2022 Sales Managers 11-2030 Public Relations Managers 11-2031 Public Relations Managers 11-3000 Operations Specialties Managers 11-3010 Administrative Services Managers 11-3011 Administrative Services Managers 11-3020 Computer and Information Systems Managers 11-3021 Computer and Information Systems Managers 11-3030 Financial Managers 11-3031 Financial Managers 11-3040 Human Resources Managers 11-3041 Compensation and Benefits Managers 11-3042 Training and Development Managers 11-3049 Human Resources Managers, All Other 11-3050 Industrial Production Managers 11-3051 Industrial Production Managers 11-3060 Purchasing Managers 11-3061 Purchasing Managers 11-3070 Transportation, Storage, and Distribution Managers 11-3071 Transportation, Storage, and Distribution Managers 11-9000 Other Management Occupations 11-9010 Agricultural Managers 11-9011 Farm, Ranch, and Other Agricultural Managers 11-9012 Farmers and Ranchers 11-9020 Construction Managers 11-9021 Construction Managers 11-9030 Education Administrators 11-9031 Education Administrators, Preschool and Child Care Center/Program 11-9032 Education Administrators, Elementary and Secondary School 11-9033 Education Administrators, Postsecondary 11-9039 Education Administrators, All Other 11-9040 Engineering Managers

11-9041 Engineering Managers 11-9050 Food Service Managers

- 11-9051 Food Service Managers
- 11-9060 Funeral Directors
- 11-9061 Funeral Directors
- 11-9070 Gaming Managers
- 11-9071 Gaming Managers
- 11-9080 Lodging Managers
- 11-9081 Lodging Managers
- 11-9110 Medical and Health Services Managers
- 11-9111 Medical and Health Services Managers
- 11-9120 Natural Sciences Managers
- 11-9121 Natural Sciences Managers
- 11-9130 Postmasters and Mail Superintendents
- 11-9131 Postmasters and Mail Superintendents
- 11-9140 Property, Real Estate, and Community Association Managers
- 11-9141 Property, Real Estate, and Community Association Managers
- 11-9150 Social and Community Service Managers
- 11-9151 Social and Community Service Managers
- 11-9190 Miscellaneous Managers
- 11-9199 Managers, All Other
- 13-0000 Business and Financial Operations Occupations
- 13-1000 Business Operations Specialists
- 13-1010 Agents and Business Managers of Artists, Performers, and Athletes
- 13-1011 Agents and Business Managers of Artists, Performers, and Athletes
- 13-1020 Buyers and Purchasing Agents
- 13-1021 Purchasing Agents and Buyers, Farm Products
- 13-1022 Wholesale and Retail Buyers, Except Farm Products
- 13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products
- 13-1030 Claims Adjusters, Appraisers, Examiners, and Investigators
- 13-1031 Claims Adjusters, Examiners, and Investigators
- 13-1032 Insurance Appraisers, Auto Damage
- 13-1040 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
- 13-1041 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
- 13-1050 Cost Estimators
- 13-1051 Cost Estimators
- 13-1060 Emergency Management Specialists
- 13-1061 Emergency Management Specialists
- 13-1070 Human Resources, Training, and Labor Relations Specialists
- 13-1071 Employment, Recruitment, and Placement Specialists
- 13-1072 Compensation, Benefits, and Job Analysis Specialists
- 13-1073 Training and Development Specialists
- 13-1079 Human Resources, Training, and Labor Relations Specialists, All Other
- 13-1080 Logisticians
- 13-1081 Logisticians
- 13-1110 Management Analysts
- 13-1111 Management Analysts
- 13-1120 Meeting and Convention Planners
- 13-1121 Meeting and Convention Planners
- 13-1190 Miscellaneous Business Operations Specialists
- 13-1199 Business Operations Specialists, All Other

- 13-2000 Financial Specialists
- 13-2010 Accountants and Auditors
- 13-2011 Accountants and Auditors
- 13-2020 Appraisers and Assessors of Real Estate
- 13-2021 Appraisers and Assessors of Real Estate
- 13-2030 Budget Analysts
- 13-2031 Budget Analysts
- 13-2040 Credit Analysts
- 13-2041 Credit Analysts
- 13-2050 Financial Analysts and Advisors
- 13-2051 Financial Analysts
- 13-2052 Personal Financial Advisors
- 13-2053 Insurance Underwriters
- 13-2060 Financial Examiners
- 13-2061 Financial Examiners
- 13-2070 Loan Counselors and Officers
- 13-2071 Loan Counselors
- 13-2072 Loan Officers
- 13-2080 Tax Examiners, Collectors, Preparers, and Revenue Agents
- 13-2081 Tax Examiners, Collectors, and Revenue Agents
- 13-2082 Tax Preparers
- 13-2090 Miscellaneous Financial Specialists
- 13-2099 Financial Specialists, All Other
- 15-0000 Computer and Mathematical Occupations
- 15-1000 Computer Specialists
- 15-1010 Computer and Information Scientists, Research
- 15-1011 Computer and Information Scientists, Research
- 15-1020 Computer Programmers
- 15-1021 Computer Programmers
- 15-1030 Computer Software Engineers
- 15-1031 Computer Software Engineers, Applications
- 15-1032 Computer Software Engineers, Systems Software
- 15-1040 Computer Support Specialists
- 15-1041 Computer Support Specialists
- 15-1050 Computer Systems Analysts
- 15-1051 Computer Systems Analysts
- 15-1060 Database Administrators
- 15-1061 Database Administrators
- 15-1070 Network and Computer Systems Administrators
- 15-1071 Network and Computer Systems Administrators
- 15-1080 Network Systems and Data Communications Analysts
- 15-1081 Network Systems and Data Communications Analysts
- 15-1090 Miscellaneous Computer Specialists
- 15-1099 Computer Specialists, All Other
- 15-2000 Mathematical Science Occupations
- 15-2010 Actuaries
- 15-2011 Actuaries
- 15-2020 Mathematicians
- 15-2021 Mathematicians
- 15-2030 Operations Research Analysts
- 15-2031 Operations Research Analysts

- 15-2040 Statisticians
- 15-2041 Statisticians
- 15-2090 Miscellaneous Mathematical Science Occupations
- 15-2091 Mathematical Technicians
- 15-2099 Mathematical Science Occupations, All Other
- 17-0000 Architecture and Engineering Occupations
- 17-1000 Architects, Surveyors, and Cartographers
- 17-1010 Architects, Except Naval
- 17-1011 Architects, Except Landscape and Naval
- 17-1012 Landscape Architects
- 17-1020 Surveyors, Cartographers, and Photogrammetrists
- 17-1021 Cartographers and Photogrammetrists
- 17-1022 Surveyors
- 17-2000 Engineers
- 17-2010 Aerospace Engineers
- 17-2011 Aerospace Engineers
- 17-2020 Agricultural Engineers
- 17-2021 Agricultural Engineers
- 17-2030 Biomedical Engineers
- 17-2031 Biomedical Engineers
- 17-2040 Chemical Engineers
- 17-2041 Chemical Engineers
- 17-2050 Civil Engineers
- 17-2051 Civil Engineers
- 17-2060 Computer Hardware Engineers
- 17-2061 Computer Hardware Engineers
- 17-2070 Electrical and Electronics Engineers
- 17-2071 Electrical Engineers
- 17-2072 Electronics Engineers, Except Computer
- 17-2080 Environmental Engineers
- 17-2081 Environmental Engineers
- 17-2110 Industrial Engineers, Including Health and Safety
- 17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
- 17-2112 Industrial Engineers
- 17-2120 Marine Engineers and Naval Architects
- 17-2121 Marine Engineers and Naval Architects
- 17-2130 Materials Engineers
- 17-2131 Materials Engineers
- 17-2140 Mechanical Engineers
- 17-2141 Mechanical Engineers
- 17-2150 Mining and Geological Engineers, Including Mining Safety Engineers
- 17-2151 Mining and Geological Engineers, Including Mining Safety Engineers
- 17-2160 Nuclear Engineers
- 17-2161 Nuclear Engineers
- 17-2170 Petroleum Engineers
- 17-2171 Petroleum Engineers
- 17-2190 Miscellaneous Engineers
- 17-2199 Engineers, All Other
- 17-3000 Drafters, Engineering, and Mapping Technicians
- 17-3010 Drafters
- 17-3011 Architectural and Civil Drafters

- 17-3012 Electrical and Electronics Drafters
- 17-3013 Mechanical Drafters
- 17-3019 Drafters, All Other
- 17-3020 Engineering Technicians, Except Drafters
- 17-3021 Aerospace Engineering and Operations Technicians
- 17-3022 Civil Engineering Technicians
- 17-3023 Electrical and Electronic Engineering Technicians
- 17-3024 Electro-Mechanical Technicians
- 17-3025 Environmental Engineering Technicians
- 17-3026 Industrial Engineering Technicians
- 17-3027 Mechanical Engineering Technicians
- 17-3029 Engineering Technicians, Except Drafters, All Other
- 17-3030 Surveying and Mapping Technicians
- 17-3031 Surveying and Mapping Technicians
- 19-0000 Life, Physical, and Social Science Occupations
- 19-1000 Life Scientists
- 19-1010 Agricultural and Food Scientists
- 19-1011 Animal Scientists
- 19-1012 Food Scientists and Technologists
- 19-1013 Soil and Plant Scientists
- 19-1020 Biological Scientists
- 19-1021 Biochemists and Biophysicists
- 19-1022 Microbiologists
- 19-1023 Zoologists and Wildlife Biologists
- 19-1029 Biological Scientists, All Other
- 19-1030 Conservation Scientists and Foresters
- 19-1031 Conservation Scientists
- 19-1032 Foresters
- 19-1040 Medical Scientists
- 19-1041 Epidemiologists
- 19-1042 Medical Scientists, Except Epidemiologists
- 19-1090 Miscellaneous Life Scientists
- 19-1099 Life Scientists, All Other
- 19-2000 Physical Scientists
- 19-2010 Astronomers and Physicists
- 19-2011 Astronomers
- 19-2012 Physicists
- 19-2020 Atmospheric and Space Scientists
- 19-2021 Atmospheric and Space Scientists
- 19-2030 Chemists and Materials Scientists
- 19-2031 Chemists
- 19-2032 Materials Scientists
- 19-2040 Environmental Scientists and Geoscientists
- 19-2041 Environmental Scientists and Specialists, Including Health
- 19-2042 Geoscientists, Except Hydrologists and Geographers
- 19-2043 Hydrologists
- 19-2090 Miscellaneous Physical Scientists
- 19-2099 Physical Scientists, All Other
- 19-3000 Social Scientists and Related Workers
- 19-3010 Economists
- 19-3011 Economists

- 19-3020 Market and Survey Researchers
- 19-3021 Market Research Analysts
- 19-3022 Survey Researchers
- 19-3030 Psychologists
- 19-3031 Clinical, Counseling, and School Psychologists
- 19-3032 Industrial-Organizational Psychologists
- 19-3039 Psychologists, All Other
- 19-3040 Sociologists
- 19-3041 Sociologists
- 19-3050 Urban and Regional Planners
- 19-3051 Urban and Regional Planners
- 19-3090 Miscellaneous Social Scientists and Related Workers
- 19-3091 Anthropologists and Archeologists
- 19-3092 Geographers
- 19-3093 Historians
- 19-3094 Political Scientists
- 19-3099 Social Scientists and Related Workers, All Other
- 19-4000 Life, Physical, and Social Science Technicians
- 19-4010 Agricultural and Food Science Technicians
- 19-4011 Agricultural and Food Science Technicians
- 19-4020 Biological Technicians
- 19-4021 Biological Technicians
- 19-4030 Chemical Technicians
- 19-4031 Chemical Technicians
- 19-4040 Geological and Petroleum Technicians
- 19-4041 Geological and Petroleum Technicians
- 19-4050 Nuclear Technicians
- 19-4051 Nuclear Technicians
- 19-4060 Social Science Research Assistants
- 19-4061 Social Science Research Assistants
- 19-4090 Miscellaneous Life, Physical, and Social Science Technicians
- 19-4091 Environmental Science and Protection Technicians, Including Health
- 19-4092 Forensic Science Technicians
- 19-4093 Forest and Conservation Technicians
- 19-4099 Life, Physical, and Social Science Technicians, All Other
- 21-0000 Community and Social Services Occupations
- 21-1000 Counselors, Social Workers, and Other Community and Social Service Specialists
- 21-1010 Counselors
- 21-1011 Substance Abuse and Behavioral Disorder Counselors
- 21-1012 Educational, Vocational, and School Counselors
- 21-1013 Marriage and Family Therapists
- 21-1014 Mental Health Counselors
- 21-1015 Rehabilitation Counselors
- 21-1019 Counselors, All Other
- 21-1020 Social Workers
- 21-1021 Child, Family, and School Social Workers
- 21-1022 Medical and Public Health Social Workers
- 21-1023 Mental Health and Substance Abuse Social Workers
- 21-1029 Social Workers, All Other
- 21-1090 Miscellaneous Community and Social Service Specialists
- 21-1091 Health Educators

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21-1092 Probation Officers and Correctional Treatment Specialists
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- 21-1093 Social and Human Service Assistants
- 21-1099 Community and Social Service Specialists, All Other
- 21-2000 Religious Workers
- 21-2010 Clergy
- 21-2011 Clergy
- 21-2020 Directors, Religious Activities and Education
- 21-2021 Directors, Religious Activities and Education
- 21-2090 Miscellaneous Religious Workers
- 21-2099 Religious Workers, All Other
- 23-0000 Legal Occupations
- 23-1000 Lawyers, Judges, and Related Workers
- 23-1010 Lawyers
- 23-1011 Lawyers
- 23-1020 Judges, Magistrates, and Other Judicial Workers
- 23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers
- 23-1022 Arbitrators, Mediators, and Conciliators
- 23-1023 Judges, Magistrate Judges, and Magistrates
- 23-2000 Legal Support Workers
- 23-2010 Paralegals and Legal Assistants
- 23-2011 Paralegals and Legal Assistants
- 23-2090 Miscellaneous Legal Support Workers
- 23-2091 Court Reporters
- 23-2092 Law Clerks
- 23-2093 Title Examiners, Abstractors, and Searchers
- 23-2099 Legal Support Workers, All Other
- 25-0000 Education, Training, and Library Occupations
- 25-1000 Postsecondary Teachers
- 25-1010 Business Teachers, Postsecondary
- 25-1011 Business Teachers, Postsecondary
- 25-1020 Math and Computer Teachers, Postsecondary
- 25-1021 Computer Science Teachers, Postsecondary
- 25-1022 Mathematical Science Teachers, Postsecondary
- 25-1030 Engineering and Architecture Teachers, Postsecondary
- 25-1031 Architecture Teachers, Postsecondary
- 25-1032 Engineering Teachers, Postsecondary
- 25-1040 Life Sciences Teachers, Postsecondary
- 25-1041 Agricultural Sciences Teachers, Postsecondary
- 25-1042 Biological Science Teachers, Postsecondary
- 25-1043 Forestry and Conservation Science Teachers, Postsecondary
- 25-1050 Physical Sciences Teachers, Postsecondary
- 25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
- 25-1052 Chemistry Teachers, Postsecondary
- 25-1053 Environmental Science Teachers, Postsecondary
- 25-1054 Physics Teachers, Postsecondary
- 25-1060 Social Sciences Teachers, Postsecondary
- 25-1061 Anthropology and Archeology Teachers, Postsecondary
- 25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
- 25-1063 Economics Teachers, Postsecondary
- 25-1064 Geography Teachers, Postsecondary
- 25-1065 Political Science Teachers, Postsecondary

- 25-1066 Psychology Teachers, Postsecondary
- 25-1067 Sociology Teachers, Postsecondary
- 25-1069 Social Sciences Teachers, Postsecondary, All Other
- 25-1070 Health Teachers, Postsecondary
- 25-1071 Health Specialties Teachers, Postsecondary
- 25-1072 Nursing Instructors and Teachers, Postsecondary
- 25-1080 Education and Library Science Teachers, Postsecondary
- 25-1081 Education Teachers, Postsecondary
- 25-1082 Library Science Teachers, Postsecondary
- 25-1110 Law, Criminal Justice, and Social Work Teachers, Postsecondary
- 25-1111 Criminal Justice and Law Enforcement Teachers, Postsecondary
- 25-1112 Law Teachers, Postsecondary
- 25-1113 Social Work Teachers, Postsecondary
- 25-1120 Arts, Communications, and Humanities Teachers, Postsecondary
- 25-1121 Art, Drama, and Music Teachers, Postsecondary
- 25-1122 Communications Teachers, Postsecondary
- 25-1123 English Language and Literature Teachers, Postsecondary
- 25-1124 Foreign Language and Literature Teachers, Postsecondary
- 25-1125 History Teachers, Postsecondary
- 25-1126 Philosophy and Religion Teachers, Postsecondary
- 25-1190 Miscellaneous Postsecondary Teachers
- 25-1191 Graduate Teaching Assistants
- 25-1192 Home Economics Teachers, Postsecondary
- 25-1193 Recreation and Fitness Studies Teachers, Postsecondary
- 25-1194 Vocational Education Teachers, Postsecondary
- 25-1199 Postsecondary Teachers, All Other
- 25-2000 Primary, Secondary, and Special Education School Teachers
- 25-2010 Preschool and Kindergarten Teachers
- 25-2011 Preschool Teachers, Except Special Education
- 25-2012 Kindergarten Teachers, Except Special Education
- 25-2020 Elementary and Middle School Teachers
- 25-2021 Elementary School Teachers, Except Special Education
- 25-2022 Middle School Teachers, Except Special and Vocational Education
- 25-2023 Vocational Education Teachers, Middle School
- 25-2030 Secondary School Teachers
- 25-2031 Secondary School Teachers, Except Special and Vocational Education
- 25-2032 Vocational Education Teachers, Secondary School
- 25-2040 Special Education Teachers
- 25-2041 Special Education Teachers, Preschool, Kindergarten, and Elementary School
- 25-2042 Special Education Teachers, Middle School
- 25-2043 Special Education Teachers, Secondary School
- 25-3000 Other Teachers and Instructors
- 25-3010 Adult Literacy, Remedial Education, and GED Teachers and Instructors
- 25-3011 Adult Literacy, Remedial Education, and GED Teachers and Instructors
- 25-3020 Self-Enrichment Education Teachers
- 25-3021 Self-Enrichment Education Teachers
- 25-3090 Miscellaneous Teachers and Instructors
- 25-3099 Teachers and Instructors, All Other
- 25-4000 Librarians, Curators, and Archivists
- 25-4010 Archivists, Curators, and Museum Technicians
- 25-4011 Archivists

- 25-4012 Curators
- 25-4013 Museum Technicians and Conservators
- 25-4020 Librarians
- 25-4021 Librarians
- 25-4030 Library Technicians
- 25-4031 Library Technicians
- 25-9000 Other Education, Training, and Library Occupations
- 25-9010 Audio-Visual Collections Specialists
- 25-9011 Audio-Visual Collections Specialists
- 25-9020 Farm and Home Management Advisors
- 25-9021 Farm and Home Management Advisors
- 25-9030 Instructional Coordinators
- 25-9031 Instructional Coordinators
- 25-9040 Teacher Assistants
- 25-9041 Teacher Assistants
- 25-9090 Miscellaneous Education, Training, and Library Workers
- 25-9099 Education, Training, and Library Workers, All Other
- 27-0000 Arts, Design, Entertainment, Sports, and Media Occupations
- 27-1000 Art and Design Workers
- 27-1010 Artists and Related Workers
- 27-1011 Art Directors
- 27-1012 Craft Artists
- 27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators
- 27-1014 Multi-Media Artists and Animators
- 27-1019 Artists and Related Workers, All Other
- 27-1020 Designers
- 27-1021 Commercial and Industrial Designers
- 27-1022 Fashion Designers
- 27-1023 Floral Designers
- 27-1024 Graphic Designers
- 27-1025 Interior Designers
- 27-1026 Merchandise Displayers and Window Trimmers
- 27-1027 Set and Exhibit Designers
- 27-1029 Designers, All Other
- 27-2000 Entertainers and Performers, Sports and Related Workers
- 27-2010 Actors, Producers, and Directors
- 27-2011 Actors
- 27-2012 Producers and Directors
- 27-2020 Athletes, Coaches, Umpires, and Related Workers
- 27-2021 Athletes and Sports Competitors
- 27-2022 Coaches and Scouts
- 27-2023 Umpires, Referees, and Other Sports Officials
- 27-2030 Dancers and Choreographers
- 27-2031 Dancers
- 27-2032 Choreographers
- 27-2040 Musicians, Singers, and Related Workers
- 27-2041 Music Directors and Composers
- 27-2042 Musicians and Singers
- 27-2090 Miscellaneous Entertainers and Performers, Sports and Related Workers
- 27-2099 Entertainers and Performers, Sports and Related Workers, All Other
- 27-3000 Media and Communication Workers

- 27-3010 Announcers
- 27-3011 Radio and Television Announcers
- 27-3012 Public Address System and Other Announcers
- 27-3020 News Analysts, Reporters and Correspondents
- 27-3021 Broadcast News Analysts
- 27-3022 Reporters and Correspondents
- 27-3030 Public Relations Specialists
- 27-3031 Public Relations Specialists
- 27-3040 Writers and Editors
- 27-3041 Editors
- 27-3042 Technical Writers
- 27-3043 Writers and Authors
- 27-3090 Miscellaneous Media and Communication Workers
- 27-3091 Interpreters and Translators
- 27-3099 Media and Communication Workers, All Other
- 27-4000 Media and Communication Equipment Workers
- 27-4010 Broadcast and Sound Engineering Technicians and Radio Operators
- 27-4011 Audio and Video Equipment Technicians
- 27-4012 Broadcast Technicians
- 27-4013 Radio Operators
- 27-4014 Sound Engineering Technicians
- 27-4020 Photographers
- 27-4021 Photographers
- 27-4030 Television, Video, and Motion Picture Camera Operators and Editors
- 27-4031 Camera Operators, Television, Video, and Motion Picture
- 27-4032 Film and Video Editors
- 27-4090 Miscellaneous Media and Communication Equipment Workers
- 27-4099 Media and Communication Equipment Workers, All Other
- 29-0000 Healthcare Practitioners and Technical Occupations
- 29-1000 Health Diagnosing and Treating Practitioners
- 29-1010 Chiropractors
- 29-1011 Chiropractors
- 29-1020 Dentists
- 29-1021 Dentists, General
- 29-1022 Oral and Maxillofacial Surgeons
- 29-1023 Orthodontists
- 29-1024 Prosthodontists
- 29-1029 Dentists, All Other Specialists
- 29-1030 Dietitians and Nutritionists
- 29-1031 Dietitians and Nutritionists
- 29-1040 Optometrists
- 29-1041 Optometrists
- 29-1050 Pharmacists
- 29-1051 Pharmacists
- 29-1060 Physicians and Surgeons
- 29-1061 Anesthesiologists
- 29-1062 Family and General Practitioners
- 29-1063 Internists, General
- 29-1064 Obstetricians and Gynecologists
- 29-1065 Pediatricians, General
- 29-1066 Psychiatrists

- 29-1067 Surgeons
- 29-1069 Physicians and Surgeons, All Other
- 29-1070 Physician Assistants
- 29-1071 Physician Assistants
- 29-1080 Podiatrists
- 29-1081 Podiatrists
- 29-1110 Registered Nurses
- 29-1111 Registered Nurses
- 29-1120 Therapists
- 29-1121 Audiologists
- 29-1122 Occupational Therapists
- 29-1123 Physical Therapists
- 29-1124 Radiation Therapists
- 29-1125 Recreational Therapists
- 29-1126 Respiratory Therapists
- 29-1127 Speech-Language Pathologists
- 29-1129 Therapists, All Other
- 29-1130 Veterinarians
- 29-1131 Veterinarians
- 29-1190 Miscellaneous Health Diagnosing and Treating Practitioners
- 29-1199 Health Diagnosing and Treating Practitioners, All Other
- 29-2000 Health Technologists and Technicians
- 29-2010 Clinical Laboratory Technologists and Technicians
- 29-2011 Medical and Clinical Laboratory Technologists
- 29-2012 Medical and Clinical Laboratory Technicians
- 29-2020 Dental Hygienists
- 29-2021 Dental Hygienists
- 29-2030 Diagnostic Related Technologists and Technicians
- 29-2031 Cardiovascular Technologists and Technicians
- 29-2032 Diagnostic Medical Sonographers
- 29-2033 Nuclear Medicine Technologists
- 29-2034 Radiologic Technologists and Technicians
- 29-2040 Emergency Medical Technicians and Paramedics
- 29-2041 Emergency Medical Technicians and Paramedics
- 29-2050 Health Diagnosing and Treating Practitioner Support Technicians
- 29-2051 Dietetic Technicians
- 29-2052 Pharmacy Technicians
- 29-2053 Psychiatric Technicians
- 29-2054 Respiratory Therapy Technicians
- 29-2055 Surgical Technologists
- 29-2056 Veterinary Technologists and Technicians
- 29-2060 Licensed Practical and Licensed Vocational Nurses
- 29-2061 Licensed Practical and Licensed Vocational Nurses
- 29-2070 Medical Records and Health Information Technicians
- 29-2071 Medical Records and Health Information Technicians
- 29-2080 Opticians, Dispensing
- 29-2081 Opticians, Dispensing
- 29-2090 Miscellaneous Health Technologists and Technicians
- 29-2091 Orthotists and Prosthetists
- 29-2099 Health Technologists and Technicians, All Other
- 29-9000 Other Healthcare Practitioners and Technical Occupations

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29-9010 Occupational Health and Safety Specialists and Technicians
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- 29-9011 Occupational Health and Safety Specialists
- 29-9012 Occupational Health and Safety Technicians
- 29-9090 Miscellaneous Health Practitioners and Technical Workers
- 29-9091 Athletic Trainers
- 29-9099 Healthcare Practitioners and Technical Workers, All Other
- 31-0000 Healthcare Support Occupations
- 31-1000 Nursing, Psychiatric, and Home Health Aides
- 31-1010 Nursing, Psychiatric, and Home Health Aides
- 31-1011 Home Health Aides
- 31-1012 Nursing Aides, Orderlies, and Attendants
- 31-1013 Psychiatric Aides
- 31-2000 Occupational and Physical Therapist Assistants and Aides
- 31-2010 Occupational Therapist Assistants and Aides
- 31-2011 Occupational Therapist Assistants
- 31-2012 Occupational Therapist Aides
- 31-2020 Physical Therapist Assistants and Aides
- 31-2021 Physical Therapist Assistants
- 31-2022 Physical Therapist Aides
- 31-9000 Other Healthcare Support Occupations
- 31-9010 Massage Therapists
- 31-9011 Massage Therapists
- 31-9090 Miscellaneous Healthcare Support Occupations
- 31-9091 Dental Assistants
- 31-9092 Medical Assistants
- 31-9093 Medical Equipment Preparers
- 31-9094 Medical Transcriptionists
- 31-9095 Pharmacy Aides
- 31-9096 Veterinary Assistants and Laboratory Animal Caretakers
- 31-9099 Healthcare Support Workers, All Other
- 33-0000 Protective Service Occupations
- 33-1000 First-Line Supervisors/Managers, Protective Service Workers
- 33-1010 First-Line Supervisors/Managers, Law Enforcement Workers
- 33-1011 First-Line Supervisors/Managers of Correctional Officers
- 33-1012 First-Line Supervisors/Managers of Police and Detectives
- 33-1020 First-Line Supervisors/Managers, Fire Fighting and Prevention Workers
- 33-1021 First-Line Supervisors/Managers of Fire Fighting and Prevention Workers
- 33-1090 Miscellaneous First-Line Supervisors/Managers, Protective Service Workers
- 33-1099 First-Line Supervisors/Managers, Protective Service Workers, All Other
- 33-2000 Fire Fighting and Prevention Workers
- 33-2010 Fire Fighters
- 33-2011 Fire Fighters
- 33-2020 Fire Inspectors
- 33-2021 Fire Inspectors and Investigators
- 33-2022 Forest Fire Inspectors and Prevention Specialists
- 33-3000 Law Enforcement Workers
- 33-3010 Bailiffs, Correctional Officers, and Jailers
- 33-3011 Bailiffs
- 33-3012 Correctional Officers and Jailers
- 33-3020 Detectives and Criminal Investigators
- 33-3021 Detectives and Criminal Investigators

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33-3030 Fish and Game Wardens
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33-3031 Fish and Game Wardens

33-3040 Parking Enforcement Workers

33-3041 Parking Enforcement Workers

33-3050 Police Officers

33-3051 Police and Sheriff's Patrol Officers

33-3052 Transit and Railroad Police

33-9000 Other Protective Service Workers

33-9010 Animal Control Workers

33-9011 Animal Control Workers

33-9020 Private Detectives and Investigators

33-9021 Private Detectives and Investigators

33-9030 Security Guards and Gaming Surveillance Officers

33-9031 Gaming Surveillance Officers and Gaming Investigators

33-9032 Security Guards

33-9090 Miscellaneous Protective Service Workers

33-9091 Crossing Guards

33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers

33-9099 Protective Service Workers, All Other

35-0000 Food Preparation and Serving Related Occupations

35-1000 Supervisors, Food Preparation and Serving Workers

35-1010 First-Line Supervisors/Managers, Food Preparation and Serving Workers

35-1011 Chefs and Head Cooks

35-1012 First-Line Supervisors/Managers of Food Preparation and Serving Workers

35-2000 Cooks and Food Preparation Workers

35-2010 Cooks

35-2011 Cooks, Fast Food

35-2012 Cooks. Institution and Cafeteria

35-2013 Cooks, Private Household

35-2014 Cooks, Restaurant

35-2015 Cooks, Short Order

35-2019 Cooks, All Other

35-2020 Food Preparation Workers

35-2021 Food Preparation Workers

35-3000 Food and Beverage Serving Workers

35-3010 Bartenders

35-3011 Bartenders

35-3020 Fast Food and Counter Workers

35-3021 Combined Food Preparation and Serving Workers, Including Fast Food

35-3022 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop

35-3030 Waiters and Waitresses

35-3031 Waiters and Waitresses

35-3040 Food Servers, Nonrestaurant

35-3041 Food Servers, Nonrestaurant

35-9000 Other Food Preparation and Serving Related Workers

35-9010 Dining Room and Cafeteria Attendants and Bartender Helpers

35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers

35-9020 Dishwashers

35-9021 Dishwashers

35-9030 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop

35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop

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35-9090 Miscellaneous Food Preparation and Serving Related Workers
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- 35-9099 Food Preparation and Serving Related Workers, All Other
- 37-0000 Building and Grounds Cleaning and Maintenance Occupations
- 37-1000 Supervisors, Building and Grounds Cleaning and Maintenance Workers
- 37-1010 First-Line Supervisors/Managers, Building and Grounds Cleaning and Maintenance Workers
- 37-1011 First-Line Supervisors/Managers of Housekeeping and Janitorial Workers
- 37-1012 First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers
- 37-2000 Building Cleaning and Pest Control Workers
- 37-2010 Building Cleaning Workers
- 37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners
- 37-2012 Maids and Housekeeping Cleaners
- 37-2019 Building Cleaning Workers, All Other
- 37-2020 Pest Control Workers
- 37-2021 Pest Control Workers
- 37-3000 Grounds Maintenance Workers
- 37-3010 Grounds Maintenance Workers
- 37-3011 Landscaping and Groundskeeping Workers
- 37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation
- 37-3013 Tree Trimmers and Pruners
- 37-3019 Grounds Maintenance Workers, All Other
- 39-0000 Personal Care and Service Occupations
- 39-1000 Supervisors, Personal Care and Service Workers
- 39-1010 First-Line Supervisors/Managers of Gaming Workers
- 39-1011 Gaming Supervisors
- 39-1012 Slot Key Persons
- 39-1020 First-Line Supervisors/Managers of Personal Service Workers
- 39-1021 First-Line Supervisors/Managers of Personal Service Workers
- 39-2000 Animal Care and Service Workers
- 39-2010 Animal Trainers
- 39-2011 Animal Trainers
- 39-2020 Nonfarm Animal Caretakers
- 39-2021 Nonfarm Animal Caretakers
- 39-3000 Entertainment Attendants and Related Workers
- 39-3010 Gaming Services Workers
- 39-3011 Gaming Dealers
- 39-3012 Gaming and Sports Book Writers and Runners
- 39-3019 Gaming Service Workers, All Other
- 39-3020 Motion Picture Projectionists
- 39-3021 Motion Picture Projectionists
- 39-3030 Ushers, Lobby Attendants, and Ticket Takers
- 39-3031 Ushers, Lobby Attendants, and Ticket Takers
- 39-3090 Miscellaneous Entertainment Attendants and Related Workers
- 39-3091 Amusement and Recreation Attendants
- 39-3092 Costume Attendants
- 39-3093 Locker Room, Coatroom, and Dressing Room Attendants
- 39-3099 Entertainment Attendants and Related Workers, All Other
- 39-4000 Funeral Service Workers
- 39-4010 Embalmers
- 39-4011 Embalmers

- 39-4020 Funeral Attendants
- 39-4021 Funeral Attendants
- 39-5000 Personal Appearance Workers
- 39-5010 Barbers and Cosmetologists
- 39-5011 Barbers
- 39-5012 Hairdressers, Hairstylists, and Cosmetologists
- 39-5090 Miscellaneous Personal Appearance Workers
- 39-5091 Makeup Artists, Theatrical and Performance
- 39-5092 Manicurists and Pedicurists
- 39-5093 Shampooers
- 39-5094 Skin Care Specialists
- 39-6000 Transportation, Tourism, and Lodging Attendants
- 39-6010 Baggage Porters, Bellhops, and Concierges
- 39-6011 Baggage Porters and Bellhops
- 39-6012 Concierges
- 39-6020 Tour and Travel Guides
- 39-6021 Tour Guides and Escorts
- 39-6022 Travel Guides
- 39-6030 Transportation Attendants
- 39-6031 Flight Attendants
- 39-6032 Transportation Attendants, Except Flight Attendants and Baggage Porters
- 39-9000 Other Personal Care and Service Workers
- 39-9010 Child Care Workers
- 39-9011 Child Care Workers
- 39-9020 Personal and Home Care Aides
- 39-9021 Personal and Home Care Aides
- 39-9030 Recreation and Fitness Workers
- 39-9031 Fitness Trainers and Aerobics Instructors
- 39-9032 Recreation Workers
- 39-9040 Residential Advisors
- 39-9041 Residential Advisors
- 39-9090 Miscellaneous Personal Care and Service Workers
- 39-9099 Personal Care and Service Workers, All Other
- 41-0000 Sales and Related Occupations
- 41-1000 Supervisors, Sales Workers
- 41-1010 First-Line Supervisors/Managers, Sales Workers
- 41-1011 First-Line Supervisors/Managers of Retail Sales Workers
- 41-1012 First-Line Supervisors/Managers of Non-Retail Sales Workers
- 41-2000 Retail Sales Workers
- 41-2010 Cashiers
- 41-2011 Cashiers
- 41-2012 Gaming Change Persons and Booth Cashiers
- 41-2020 Counter and Rental Clerks and Parts Salespersons
- 41-2021 Counter and Rental Clerks
- 41-2022 Parts Salespersons
- 41-2030 Retail Salespersons
- 41-2031 Retail Salespersons
- 41-3000 Sales Representatives, Services
- 41-3010 Advertising Sales Agents
- 41-3011 Advertising Sales Agents
- 41-3020 Insurance Sales Agents

- 41-3021 Insurance Sales Agents
- 41-3030 Securities, Commodities, and Financial Services Sales Agents
- 41-3031 Securities, Commodities, and Financial Services Sales Agents
- 41-3040 Travel Agents
- 41-3041 Travel Agents
- 41-3090 Miscellaneous Sales Representatives, Services
- 41-3099 Sales Representatives, Services, All Other
- 41-4000 Sales Representatives, Wholesale and Manufacturing
- 41-4010 Sales Representatives, Wholesale and Manufacturing
- 41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
- 41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
- 41-9000 Other Sales and Related Workers
- 41-9010 Models, Demonstrators, and Product Promoters
- 41-9011 Demonstrators and Product Promoters
- 41-9012 Models
- 41-9020 Real Estate Brokers and Sales Agents
- 41-9021 Real Estate Brokers
- 41-9022 Real Estate Sales Agents
- 41-9030 Sales Engineers
- 41-9031 Sales Engineers
- 41-9040 Telemarketers
- 41-9041 Telemarketers
- 41-9090 Miscellaneous Sales and Related Workers
- 41-9091 Door-To-Door Sales Workers, News and Street Vendors, and Related Workers
- 41-9099 Sales and Related Workers, All Other
- 43-0000 Office and Administrative Support Occupations
- 43-1000 Supervisors, Office and Administrative Support Workers
- 43-1010 First-Line Supervisors/Managers of Office and Administrative Support Workers
- 43-1011 First-Line Supervisors/Managers of Office and Administrative Support Workers
- 43-2000 Communications Equipment Operators
- 43-2010 Switchboard Operators, Including Answering Service
- 43-2011 Switchboard Operators, Including Answering Service
- 43-2020 Telephone Operators
- 43-2021 Telephone Operators
- 43-2090 Miscellaneous Communications Equipment Operators
- 43-2099 Communications Equipment Operators, All Other
- 43-3000 Financial Clerks
- 43-3010 Bill and Account Collectors
- 43-3011 Bill and Account Collectors
- 43-3020 Billing and Posting Clerks and Machine Operators
- 43-3021 Billing and Posting Clerks and Machine Operators
- 43-3030 Bookkeeping, Accounting, and Auditing Clerks
- 43-3031 Bookkeeping, Accounting, and Auditing Clerks
- 43-3040 Gaming Cage Workers
- 43-3041 Gaming Cage Workers
- 43-3050 Payroll and Timekeeping Clerks
- 43-3051 Payroll and Timekeeping Clerks
- 43-3060 Procurement Clerks
- 43-3061 Procurement Clerks

- 43-3070 Tellers
- 43-3071 Tellers
- 43-4000 Information and Record Clerks
- 43-4010 Brokerage Clerks
- 43-4011 Brokerage Clerks
- 43-4020 Correspondence Clerks
- 43-4021 Correspondence Clerks
- 43-4030 Court, Municipal, and License Clerks
- 43-4031 Court, Municipal, and License Clerks
- 43-4040 Credit Authorizers, Checkers, and Clerks
- 43-4041 Credit Authorizers, Checkers, and Clerks
- 43-4050 Customer Service Representatives
- 43-4051 Customer Service Representatives
- 43-4060 Eligibility Interviewers, Government Programs
- 43-4061 Eligibility Interviewers, Government Programs
- 43-4070 File Clerks
- 43-4071 File Clerks
- 43-4080 Hotel, Motel, and Resort Desk Clerks
- 43-4081 Hotel, Motel, and Resort Desk Clerks
- 43-4110 Interviewers, Except Eligibility and Loan
- 43-4111 Interviewers, Except Eligibility and Loan
- 43-4120 Library Assistants, Clerical
- 43-4121 Library Assistants, Clerical
- 43-4130 Loan Interviewers and Clerks
- 43-4131 Loan Interviewers and Clerks
- 43-4140 New Accounts Clerks
- 43-4141 New Accounts Clerks
- 43-4150 Order Clerks
- 43-4151 Order Clerks
- 43-4160 Human Resources Assistants, Except Payroll and Timekeeping
- 43-4161 Human Resources Assistants, Except Payroll and Timekeeping
- 43-4170 Receptionists and Information Clerks
- 43-4171 Receptionists and Information Clerks
- 43-4180 Reservation and Transportation Ticket Agents and Travel Clerks
- 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks
- 43-4190 Miscellaneous Information and Record Clerks
- 43-4199 Information and Record Clerks, All Other
- 43-5000 Material Recording, Scheduling, Dispatching, and Distributing Workers
- 43-5010 Cargo and Freight Agents
- 43-5011 Cargo and Freight Agents
- 43-5020 Couriers and Messengers
- 43-5021 Couriers and Messengers
- 43-5030 Dispatchers
- 43-5031 Police, Fire, and Ambulance Dispatchers
- 43-5032 Dispatchers, Except Police, Fire, and Ambulance
- 43-5040 Meter Readers, Utilities
- 43-5041 Meter Readers, Utilities
- 43-5050 Postal Service Workers
- 43-5051 Postal Service Clerks
- 43-5052 Postal Service Mail Carriers
- 43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators

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43-5060 Production, Planning, and Expediting Clerks
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43-5070 Shipping, Receiving, and Traffic Clerks

43-5071 Shipping, Receiving, and Traffic Clerks

43-5080 Stock Clerks and Order Fillers

43-5081 Stock Clerks and Order Fillers

43-5110 Weighers, Measurers, Checkers, and Samplers, Recordkeeping

43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping

43-6000 Secretaries and Administrative Assistants

43-6010 Secretaries and Administrative Assistants

43-6011 Executive Secretaries and Administrative Assistants

43-6012 Legal Secretaries

43-6013 Medical Secretaries

43-6014 Secretaries, Except Legal, Medical, and Executive

43-9000 Other Office and Administrative Support Workers

43-9010 Computer Operators

43-9011 Computer Operators

43-9020 Data Entry and Information Processing Workers

43-9021 Data Entry Keyers

43-9022 Word Processors and Typists

43-9030 Desktop Publishers

43-9031 Desktop Publishers

43-9040 Insurance Claims and Policy Processing Clerks

43-9041 Insurance Claims and Policy Processing Clerks

43-9050 Mail Clerks and Mail Machine Operators, Except Postal Service

43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service

43-9060 Office Clerks, General

43-9061 Office Clerks, General

43-9070 Office Machine Operators, Except Computer

43-9071 Office Machine Operators, Except Computer

43-9080 Proofreaders and Copy Markers

43-9081 Proofreaders and Copy Markers

43-9110 Statistical Assistants

43-9111 Statistical Assistants

43-9190 Miscellaneous Office and Administrative Support Workers

43-9199 Office and Administrative Support Workers, All Other

45-0000 Farming, Fishing, and Forestry Occupations

45-1000 Supervisors, Farming, Fishing, and Forestry Workers

45-1010 First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers

45-1011 First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers

45-1012 Farm Labor Contractors

45-2000 Agricultural Workers

45-2010 Agricultural Inspectors

45-2011 Agricultural Inspectors

45-2020 Animal Breeders

45-2021 Animal Breeders

45-2040 Graders and Sorters, Agricultural Products

45-2041 Graders and Sorters, Agricultural Products

45-2090 Miscellaneous Agricultural Workers

45-2091 Agricultural Equipment Operators

45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse

⁴³⁻⁵⁰⁶¹ Production, Planning, and Expediting Clerks

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45-2093 Farmworkers, Farm and Ranch Animals
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- 45-2099 Agricultural Workers, All Other
- 45-3000 Fishing and Hunting Workers
- 45-3010 Fishers and Related Fishing Workers
- 45-3011 Fishers and Related Fishing Workers
- 45-3020 Hunters and Trappers
- 45-3021 Hunters and Trappers
- 45-4000 Forest, Conservation, and Logging Workers
- 45-4010 Forest and Conservation Workers
- 45-4011 Forest and Conservation Workers
- 45-4020 Logging Workers
- 45-4021 Fallers
- 45-4022 Logging Equipment Operators
- 45-4023 Log Graders and Scalers
- 45-4029 Logging Workers, All Other
- 47-0000 Construction and Extraction Occupations
- 47-1000 Supervisors, Construction and Extraction Workers
- 47-1010 First-Line Supervisors/Managers of Construction Trades and Extraction Workers
- 47-1011 First-Line Supervisors/Managers of Construction Trades and Extraction Workers
- 47-2000 Construction Trades Workers
- 47-2010 Boilermakers
- 47-2011 Boilermakers
- 47-2020 Brickmasons, Blockmasons, and Stonemasons
- 47-2021 Brickmasons and Blockmasons
- 47-2022 Stonemasons
- 47-2030 Carpenters
- 47-2031 Carpenters
- 47-2040 Carpet, Floor, and Tile Installers and Finishers
- 47-2041 Carpet Installers
- 47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles
- 47-2043 Floor Sanders and Finishers
- 47-2044 Tile and Marble Setters
- 47-2050 Cement Masons, Concrete Finishers, and Terrazzo Workers
- 47-2051 Cement Masons and Concrete Finishers
- 47-2053 Terrazzo Workers and Finishers
- 47-2060 Construction Laborers
- 47-2061 Construction Laborers
- 47-2070 Construction Equipment Operators
- 47-2071 Paving, Surfacing, and Tamping Equipment Operators
- 47-2072 Pile-Driver Operators
- 47-2073 Operating Engineers and Other Construction Equipment Operators
- 47-2080 Drywall Installers, Ceiling Tile Installers, and Tapers
- 47-2081 Drywall and Ceiling Tile Installers
- 47-2082 Tapers
- 47-2110 Electricians
- 47-2111 Electricians
- 47-2120 Glaziers
- 47-2121 Glaziers
- 47-2130 Insulation Workers
- 47-2131 Insulation Workers, Floor, Ceiling, and Wall
- 47-2132 Insulation Workers, Mechanical

- 47-2140 Painters and Paperhangers
- 47-2141 Painters, Construction and Maintenance
- 47-2142 Paperhangers
- 47-2150 Pipelayers, Plumbers, Pipefitters, and Steamfitters
- 47-2151 Pipelayers
- 47-2152 Plumbers, Pipefitters, and Steamfitters
- 47-2160 Plasterers and Stucco Masons
- 47-2161 Plasterers and Stucco Masons
- 47-2170 Reinforcing Iron and Rebar Workers
- 47-2171 Reinforcing Iron and Rebar Workers
- 47-2180 Roofers
- 47-2181 Roofers
- 47-2210 Sheet Metal Workers
- 47-2211 Sheet Metal Workers
- 47-2220 Structural Iron and Steel Workers
- 47-2221 Structural Iron and Steel Workers
- 47-3000 Helpers, Construction Trades
- 47-3010 Helpers, Construction Trades
- 47-3011 Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
- 47-3012 Helpers--Carpenters
- 47-3013 Helpers--Electricians
- 47-3014 Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons
- 47-3015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters
- 47-3016 Helpers--Roofers
- 47-3019 Helpers, Construction Trades, All Other
- 47-4000 Other Construction and Related Workers
- 47-4010 Construction and Building Inspectors
- 47-4011 Construction and Building Inspectors
- 47-4020 Elevator Installers and Repairers
- 47-4021 Elevator Installers and Repairers
- 47-4030 Fence Erectors
- 47-4031 Fence Erectors
- 47-4040 Hazardous Materials Removal Workers
- 47-4041 Hazardous Materials Removal Workers
- 47-4050 Highway Maintenance Workers
- 47-4051 Highway Maintenance Workers
- 47-4060 Rail-Track Laying and Maintenance Equipment Operators
- 47-4061 Rail-Track Laying and Maintenance Equipment Operators
- 47-4070 Septic Tank Servicers and Sewer Pipe Cleaners
- 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners
- 47-4090 Miscellaneous Construction and Related Workers
- 47-4091 Segmental Pavers
- 47-4099 Construction and Related Workers, All Other
- 47-5000 Extraction Workers
- 47-5010 Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining
- 47-5011 Derrick Operators, Oil and Gas
- 47-5012 Rotary Drill Operators, Oil and Gas
- 47-5013 Service Unit Operators, Oil, Gas, and Mining
- 47-5020 Earth Drillers, Except Oil and Gas
- 47-5021 Earth Drillers, Except Oil and Gas
- 47-5030 Explosives Workers, Ordnance Handling Experts, and Blasters

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47-5031 Explosives Workers, Ordnance Handling Experts, and Blasters
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- 47-5040 Mining Machine Operators
- 47-5041 Continuous Mining Machine Operators
- 47-5042 Mine Cutting and Channeling Machine Operators
- 47-5049 Mining Machine Operators, All Other
- 47-5050 Rock Splitters, Quarry
- 47-5051 Rock Splitters, Quarry
- 47-5060 Roof Bolters, Mining
- 47-5061 Roof Bolters, Mining
- 47-5070 Roustabouts, Oil and Gas
- 47-5071 Roustabouts, Oil and Gas
- 47-5080 Helpers--Extraction Workers
- 47-5081 Helpers--Extraction Workers
- 47-5090 Miscellaneous Extraction Workers
- 47-5099 Extraction Workers, All Other
- 49-0000 Installation, Maintenance, and Repair Occupations
- 49-1000 Supervisors of Installation, Maintenance, and Repair Workers
- 49-1010 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
- 49-1011 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
- 49-2000 Electrical and Electronic Equipment Mechanics, Installers, and Repairers
- 49-2010 Computer, Automated Teller, and Office Machine Repairers
- 49-2011 Computer, Automated Teller, and Office Machine Repairers
- 49-2020 Radio and Telecommunications Equipment Installers and Repairers
- 49-2021 Radio Mechanics
- 49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers
- 49-2090 Miscellaneous Electrical and Electronic Equipment Mechanics, Installers, and Repairers
- 49-2091 Avionics Technicians
- 49-2092 Electric Motor, Power Tool, and Related Repairers
- 49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment
- 49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
- 49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles
- 49-2097 Electronic Home Entertainment Equipment Installers and Repairers
- 49-2098 Security and Fire Alarm Systems Installers
- 49-3000 Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
- 49-3010 Aircraft Mechanics and Service Technicians
- 49-3011 Aircraft Mechanics and Service Technicians
- 49-3020 Automotive Technicians and Repairers
- 49-3021 Automotive Body and Related Repairers
- 49-3022 Automotive Glass Installers and Repairers
- 49-3023 Automotive Service Technicians and Mechanics
- 49-3030 Bus and Truck Mechanics and Diesel Engine Specialists
- 49-3031 Bus and Truck Mechanics and Diesel Engine Specialists
- 49-3040 Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics
- 49-3041 Farm Equipment Mechanics
- 49-3042 Mobile Heavy Equipment Mechanics, Except Engines
- 49-3043 Rail Car Repairers
- 49-3050 Small Engine Mechanics
- 49-3051 Motorboat Mechanics
- 49-3052 Motorcycle Mechanics

- 49-3053 Outdoor Power Equipment and Other Small Engine Mechanics
- 49-3090 Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
- 49-3091 Bicycle Repairers
- 49-3092 Recreational Vehicle Service Technicians
- 49-3093 Tire Repairers and Changers
- 49-9000 Other Installation, Maintenance, and Repair Occupations
- 49-9010 Control and Valve Installers and Repairers
- 49-9011 Mechanical Door Repairers
- 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door
- 49-9020 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
- 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
- 49-9030 Home Appliance Repairers
- 49-9031 Home Appliance Repairers
- 49-9040 Industrial Machinery Installation, Repair, and Maintenance Workers
- 49-9041 Industrial Machinery Mechanics
- 49-9042 Maintenance and Repair Workers, General
- 49-9043 Maintenance Workers, Machinery
- 49-9044 Millwrights
- 49-9045 Refractory Materials Repairers, Except Brickmasons
- 49-9050 Line Installers and Repairers
- 49-9051 Electrical Power-Line Installers and Repairers
- 49-9052 Telecommunications Line Installers and Repairers
- 49-9060 Precision Instrument and Equipment Repairers
- 49-9061 Camera and Photographic Equipment Repairers
- 49-9062 Medical Equipment Repairers
- 49-9063 Musical Instrument Repairers and Tuners
- 49-9064 Watch Repairers
- 49-9069 Precision Instrument and Equipment Repairers, All Other
- 49-9090 Miscellaneous Installation, Maintenance, and Repair Workers
- 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers
- 49-9092 Commercial Divers
- 49-9093 Fabric Menders, Except Garment
- 49-9094 Locksmiths and Safe Repairers
- 49-9095 Manufactured Building and Mobile Home Installers
- 49-9096 Riggers
- 49-9097 Signal and Track Switch Repairers
- 49-9098 Helpers--Installation, Maintenance, and Repair Workers
- 49-9099 Installation, Maintenance, and Repair Workers, All Other
- 51-0000 Production Occupations
- 51-1000 Supervisors, Production Workers
- 51-1010 First-Line Supervisors/Managers of Production and Operating Workers
- 51-1011 First-Line Supervisors/Managers of Production and Operating Workers
- 51-2000 Assemblers and Fabricators
- 51-2010 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
- 51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
- 51-2020 Electrical, Electronics, and Electromechanical Assemblers
- 51-2021 Coil Winders, Tapers, and Finishers
- 51-2022 Electrical and Electronic Equipment Assemblers
- 51-2023 Electromechanical Equipment Assemblers
- 51-2030 Engine and Other Machine Assemblers
- 51-2031 Engine and Other Machine Assemblers

- 51-2040 Structural Metal Fabricators and Fitters
- 51-2041 Structural Metal Fabricators and Fitters
- 51-2090 Miscellaneous Assemblers and Fabricators
- 51-2091 Fiberglass Laminators and Fabricators
- 51-2092 Team Assemblers
- 51-2093 Timing Device Assemblers, Adjusters, and Calibrators
- 51-2099 Assemblers and Fabricators, All Other
- 51-3000 Food Processing Workers
- 51-3010 Bakers
- 51-3011 Bakers
- 51-3020 Butchers and Other Meat, Poultry, and Fish Processing Workers
- 51-3021 Butchers and Meat Cutters
- 51-3022 Meat, Poultry, and Fish Cutters and Trimmers
- 51-3023 Slaughterers and Meat Packers
- 51-3090 Miscellaneous Food Processing Workers
- 51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
- 51-3092 Food Batchmakers
- 51-3093 Food Cooking Machine Operators and Tenders
- 51-4000 Metal Workers and Plastic Workers
- 51-4010 Computer Control Programmers and Operators
- 51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic
- 51-4012 Numerical Tool and Process Control Programmers
- 51-4020 Forming Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4030 Machine Tool Cutting Setters, Operators, and Tenders, Metal and Plastic
- 51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- 51-4033 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- 51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- 51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4040 Machinists
- 51-4041 Machinists
- 51-4050 Metal Furnace and Kiln Operators and Tenders
- 51-4051 Metal-Refining Furnace Operators and Tenders
- 51-4052 Pourers and Casters, Metal
- 51-4060 Model Makers and Patternmakers, Metal and Plastic
- 51-4061 Model Makers, Metal and Plastic
- 51-4062 Patternmakers, Metal and Plastic
- 51-4070 Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4071 Foundry Mold and Coremakers
- 51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4080 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- 51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- 51-4110 Tool and Die Makers
- 51-4111 Tool and Die Makers
- 51-4120 Welding, Soldering, and Brazing Workers

- 51-4121 Welders, Cutters, Solderers, and Brazers
- 51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders
- 51-4190 Miscellaneous Metalworkers and Plastic Workers
- 51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
- 51-4192 Lay-Out Workers, Metal and Plastic
- 51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic
- 51-4194 Tool Grinders, Filers, and Sharpeners
- 51-4199 Metal Workers and Plastic Workers, All Other
- 51-5000 Printing Workers
- 51-5010 Bookbinders and Bindery Workers
- 51-5011 Bindery Workers
- 51-5012 Bookbinders
- 51-5020 Printers
- 51-5021 Job Printers
- 51-5022 Prepress Technicians and Workers
- 51-5023 Printing Machine Operators
- 51-6000 Textile, Apparel, and Furnishings Workers
- 51-6010 Laundry and Dry-Cleaning Workers
- 51-6011 Laundry and Dry-Cleaning Workers
- 51-6020 Pressers, Textile, Garment, and Related Materials
- 51-6021 Pressers, Textile, Garment, and Related Materials
- 51-6030 Sewing Machine Operators
- 51-6031 Sewing Machine Operators
- 51-6040 Shoe and Leather Workers
- 51-6041 Shoe and Leather Workers and Repairers
- 51-6042 Shoe Machine Operators and Tenders
- 51-6050 Tailors, Dressmakers, and Sewers
- 51-6051 Sewers. Hand
- 51-6052 Tailors, Dressmakers, and Custom Sewers
- 51-6060 Textile Machine Setters, Operators, and Tenders
- 51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders
- 51-6062 Textile Cutting Machine Setters, Operators, and Tenders
- 51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders
- 51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
- 51-6090 Miscellaneous Textile, Apparel, and Furnishings Workers
- 51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
- 51-6092 Fabric and Apparel Patternmakers
- 51-6093 Upholsterers
- 51-6099 Textile, Apparel, and Furnishings Workers, All Other
- 51-7000 Woodworkers
- 51-7010 Cabinetmakers and Bench Carpenters
- 51-7011 Cabinetmakers and Bench Carpenters
- 51-7020 Furniture Finishers
- 51-7021 Furniture Finishers
- 51-7030 Model Makers and Patternmakers, Wood
- 51-7031 Model Makers, Wood
- 51-7032 Patternmakers, Wood
- 51-7040 Woodworking Machine Setters, Operators, and Tenders
- 51-7041 Sawing Machine Setters, Operators, and Tenders, Wood
- 51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing

- 51-7090 Miscellaneous Woodworkers
- 51-7099 Woodworkers, All Other
- 51-8000 Plant and System Operators
- 51-8010 Power Plant Operators, Distributors, and Dispatchers
- 51-8011 Nuclear Power Reactor Operators
- 51-8012 Power Distributors and Dispatchers
- 51-8013 Power Plant Operators
- 51-8020 Stationary Engineers and Boiler Operators
- 51-8021 Stationary Engineers and Boiler Operators
- 51-8030 Water and Liquid Waste Treatment Plant and System Operators
- 51-8031 Water and Liquid Waste Treatment Plant and System Operators
- 51-8090 Miscellaneous Plant and System Operators
- 51-8091 Chemical Plant and System Operators
- 51-8092 Gas Plant Operators
- 51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers
- 51-8099 Plant and System Operators, All Other
- 51-9000 Other Production Occupations
- 51-9010 Chemical Processing Machine Setters, Operators, and Tenders
- 51-9011 Chemical Equipment Operators and Tenders
- 51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders
- 51-9020 Crushing, Grinding, Polishing, Mixing, and Blending Workers
- 51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders
- 51-9022 Grinding and Polishing Workers, Hand
- 51-9023 Mixing and Blending Machine Setters, Operators, and Tenders
- 51-9030 Cutting Workers
- 51-9031 Cutters and Trimmers, Hand
- 51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders
- 51-9040 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
- 51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
- 51-9050 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
- 51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
- 51-9060 Inspectors, Testers, Sorters, Samplers, and Weighers
- 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers
- 51-9070 Jewelers and Precious Stone and Metal Workers
- 51-9071 Jewelers and Precious Stone and Metal Workers
- 51-9080 Medical, Dental, and Ophthalmic Laboratory Technicians
- 51-9081 Dental Laboratory Technicians
- 51-9082 Medical Appliance Technicians
- 51-9083 Ophthalmic Laboratory Technicians
- 51-9110 Packaging and Filling Machine Operators and Tenders
- 51-9111 Packaging and Filling Machine Operators and Tenders
- 51-9120 Painting Workers
- 51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
- 51-9122 Painters, Transportation Equipment
- 51-9123 Painting, Coating, and Decorating Workers
- 51-9130 Photographic Process Workers and Processing Machine Operators
- 51-9131 Photographic Process Workers
- 51-9132 Photographic Processing Machine Operators

- 51-9140 Semiconductor Processors
- 51-9141 Semiconductor Processors
- 51-9190 Miscellaneous Production Workers
- 51-9191 Cementing and Gluing Machine Operators and Tenders
- 51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
- 51-9193 Cooling and Freezing Equipment Operators and Tenders
- 51-9194 Etchers and Engravers
- 51-9195 Molders, Shapers, and Casters, Except Metal and Plastic
- 51-9196 Paper Goods Machine Setters, Operators, and Tenders
- 51-9197 Tire Builders
- 51-9198 Helpers--Production Workers
- 51-9199 Production Workers, All Other
- 53-0000 Transportation and Material Moving Occupations
- 53-1000 Supervisors, Transportation and Material Moving Workers
- 53-1010 Aircraft Cargo Handling Supervisors
- 53-1011 Aircraft Cargo Handling Supervisors
- 53-1020 First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand
- 53-1021 First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand
- 53-1030 First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators
- 53-1031 First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators
- 53-2000 Air Transportation Workers
- 53-2010 Aircraft Pilots and Flight Engineers
- 53-2011 Airline Pilots, Copilots, and Flight Engineers
- 53-2012 Commercial Pilots
- 53-2020 Air Traffic Controllers and Airfield Operations Specialists
- 53-2021 Air Traffic Controllers
- 53-2022 Airfield Operations Specialists
- 53-3000 Motor Vehicle Operators
- 53-3010 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
- 53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
- 53-3020 Bus Drivers
- 53-3021 Bus Drivers, Transit and Intercity
- 53-3022 Bus Drivers, School
- 53-3030 Driver/Sales Workers and Truck Drivers
- 53-3031 Driver/Sales Workers
- 53-3032 Truck Drivers, Heavy and Tractor-Trailer
- 53-3033 Truck Drivers, Light or Delivery Services
- 53-3040 Taxi Drivers and Chauffeurs
- 53-3041 Taxi Drivers and Chauffeurs
- 53-3090 Miscellaneous Motor Vehicle Operators
- 53-3099 Motor Vehicle Operators, All Other
- 53-4000 Rail Transportation Workers
- 53-4010 Locomotive Engineers and Operators
- 53-4011 Locomotive Engineers
- 53-4012 Locomotive Firers
- 53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers
- 53-4020 Railroad Brake, Signal, and Switch Operators
- 53-4021 Railroad Brake, Signal, and Switch Operators
- 53-4030 Railroad Conductors and Yardmasters

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53-4031 Railroad Conductors and Yardmasters
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53-4040 Subway and Streetcar Operators

53-4041 Subway and Streetcar Operators

53-4090 Miscellaneous Rail Transportation Workers

53-4099 Rail Transportation Workers, All Other

53-5000 Water Transportation Workers

53-5010 Sailors and Marine Oilers

53-5011 Sailors and Marine Oilers

53-5020 Ship and Boat Captains and Operators

53-5021 Captains, Mates, and Pilots of Water Vessels

53-5022 Motorboat Operators

53-5030 Ship Engineers

53-5031 Ship Engineers

53-6000 Other Transportation Workers

53-6010 Bridge and Lock Tenders

53-6011 Bridge and Lock Tenders

53-6020 Parking Lot Attendants

53-6021 Parking Lot Attendants

53-6030 Service Station Attendants

53-6031 Service Station Attendants

53-6040 Traffic Technicians

53-6041 Traffic Technicians

53-6050 Transportation Inspectors

53-6051 Transportation Inspectors

53-6090 Miscellaneous Transportation Workers

53-6099 Transportation Workers, All Other

53-7000 Material Moving Workers

53-7010 Conveyor Operators and Tenders

53-7011 Conveyor Operators and Tenders

53-7020 Crane and Tower Operators

53-7021 Crane and Tower Operators

53-7030 Dredge, Excavating, and Loading Machine Operators

53-7031 Dredge Operators

53-7032 Excavating and Loading Machine and Dragline Operators

53-7033 Loading Machine Operators, Underground Mining

53-7040 Hoist and Winch Operators

53-7041 Hoist and Winch Operators

53-7050 Industrial Truck and Tractor Operators

53-7051 Industrial Truck and Tractor Operators

53-7060 Laborers and Material Movers, Hand

53-7061 Cleaners of Vehicles and Equipment

53-7062 Laborers and Freight, Stock, and Material Movers, Hand

53-7063 Machine Feeders and Offbearers

53-7064 Packers and Packagers, Hand

53-7070 Pumping Station Operators

53-7071 Gas Compressor and Gas Pumping Station Operators

53-7072 Pump Operators, Except Wellhead Pumpers

53-7073 Wellhead Pumpers

53-7080 Refuse and Recyclable Material Collectors

53-7081 Refuse and Recyclable Material Collectors

53-7110 Shuttle Car Operators

- 53-7111 Shuttle Car Operators
- 53-7120 Tank Car, Truck, and Ship Loaders
- 53-7121 Tank Car, Truck, and Ship Loaders
- 53-7190 Miscellaneous Material Moving Workers
- 53-7199 Material Moving Workers, All Other
- 55-0000 Military Specific Occupations
- 55-1000 Military Officer Special and Tactical Operations Leaders/Managers
- 55-1010 Military Officer Special and Tactical Operations Leaders/Managers
- 55-1011 Air Crew Officers
- 55-1012 Aircraft Launch and Recovery Officers
- 55-1013 Armored Assault Vehicle Officers
- 55-1014 Artillery and Missile Officers
- 55-1015 Command and Control Center Officers
- 55-1016 Infantry Officers
- 55-1017 Special Forces Officers
- 55-1019 Military Officer Special and Tactical Operations Leaders/Managers, All Other
- 55-2000 First-Line Enlisted Military Supervisor/Managers
- 55-2010 First-Line Enlisted Military Supervisors/Managers
- 55-2011 First-Line Supervisors/Managers of Air Crew Members
- 55-2012 First-Line Supervisors/Managers of Weapons Specialists/Crew Members
- 55-2013 First-Line Supervisors/Managers of All Other Tactical Operations Specialists
- 55-3000 Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members
- 55-3010 Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members
- 55-3011 Air Crew Members
- 55-3012 Aircraft Launch and Recovery Specialists
- 55-3013 Armored Assault Vehicle Crew Members
- 55-3014 Artillery and Missile Crew Members
- 55-3015 Command and Control Center Specialists
- 55-3016 Infantry
- 55-3017 Radar and Sonar Technicians
- 55-3018 Special Forces
- 55-3019 Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members, All Other