

Nontraditional Occupations for Males from 2006 BLS Data
Prepared by the National Alliance for Partnerships in Equity (6/1/07)
www.napequity.org

SOC Code (a)	BLS Occupation Title (b)	Percent Men (b)	NCES		USDOE Career Cluster (c)	DOE Career Pathway Assignment (d)	
			CIP Code (c)	NCES Education Program Title (c)			
19-3041	Sociologist	0.0	45.0401	Criminology	Human Service	12.40000	Law Enforcement Services Pathway
			45.0501	Demography & Population Studies	Human Service	Not reported	
			45.1101	Sociology	Human Service	10.30000	Family and Community Services Career Pathway
			45.1201	Urban Studies/Affairs	Human Service	7.40000	Planning Career Pathway
21-102x	Social worker	17.4	43.0110	Juvenile Corrections	Human Service	12.10000	Correction Services Pathway
			44.0701	Social Work	Human Service	10.30000	Family and Community Services Career Pathway
			44.0702	Youth Services/Administration	Human Service	10.30000	Family and Community Services Career Pathway
			51.1503	Clinical/Medical Social Work	Human Service	8.10000	Therapeutic Services Pathway
23-2011	Paralegal and legal assistant	11.9	22.0302	Legal Assistant/Paralegal	Law & Public Safety	12.50000	Legal Services Pathway
23-209x	Misc. legal support worker	23.2	22.0303	Court Reporting/Court Reporter	Law & Public Safety	12.50000	Legal Services Pathway
25-201x	Preschool and kindergarten teachers	2.3	13.1209	Kindergarten/Preschool Education & Teaching	Education & Training	5.30000	Teaching/Training Pathway
			13.1210	Early Childhood Education & Teaching	Education & Training	5.30000	Teaching/Training Pathway
			19.0708	Child Care & Support Services Management	Education & Training	10.10000	Early Childhood Development and Services Career
25-202x	Elementary and middle school teacher	17.8	13.1202	Elementary Education & Teaching	Education & Training	5.30000	Teaching/Training Pathway
			13.1203	Junior High/Intermediate/Middle School Education & Teaching	Education & Training	5.30000	Teaching/Training Pathway
25-204x	Special education teacher	16.5	13.1001	Special Education, General	Education & Training	5.30000	Teaching/Training Pathway
25-4021	Librarian	15.8	13.1334	School Librarian/School Library Media Specialist	Arts, A/V Technology & Communication	5.30000	Teaching/Training Pathway
			25.0101	Library Science/Librarianship	Arts, A/V Technology & Communication	5.20000	Support Services Pathway
			25.9999	Library Science, Other	Arts, A/V Technology & Communication	5.20000	Support Services Pathway
25-9041	Teacher assistant	7.7	13.1501	Teacher Assistant/Aide	Education & Training	5.30000	Teaching/Training Pathway
			13.1599	Teaching Assistant/Aides, Other	Education & Training	5.30000	Teaching/Training Pathway
29-1031	Dietitian and nutritionist	9.0	19.0501	Foods, Nutrition, & Wellness Studies, General	Health Science	8.1000/8.4000	Therapeutic/Support Services Pathways
			19.0504	Human Nutrition	Health Science	8.1000/8.4000	Therapeutic/Support Services Pathways
			19.0505	Foodservice Systems Administration/Management	Health Science	8.1000/8.4000	Therapeutic/Support Services Pathways
			19.0599	Foods, Nutrition, & Related Services, Other	Health Science	8.1000/8.4000	Therapeutic/Support Services Pathways
			30.1901	Nutrition Sciences	Health Science	15.30000	Science and Mathematics Pathway
			51.3101	Dietetics/Dietician (RD)	Health Science	8.10000	Therapeutic Services Pathway
			51.3102	Clinical Nutrition/Nutritionist (NR)	Health Science	8.10000	Therapeutic Services Pathway
			51.3199	Dietetic and Clinical Nutrition Services, Other	Health Science	8.10000	Therapeutic Services Pathway
29-1111	Registered nurse	8.7	51.1601	Nursing - Registered Nurse Training (RN, ASN, BSN, MSN)	Health Science	8.10000	Therapeutic Services Pathway
			51.1603	Adult Health Nurse/Nursing	Health Science	8.10000	Therapeutic Services Pathway

			51.1604	Nurse Anesthetist	Health Science	8.10000	Therapeutic Services Pathway
			51.1605	Family Practice Nurse/Nurse Practitioner	Health Science	8.10000	Therapeutic Services Pathway
			51.1606	Maternal/Child Health Nurse/Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1607	Nurse Midwife/Nursing Midwifery	Health Science	8.10000	Therapeutic Services Pathway
			51.1608	Nursing Science (MS, PhD)	Health Science	8.10000	Therapeutic Services Pathway
			51.1609	Pediatric Nurse/Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1610	Psychiatric/Mental Health Nurse/Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1611	Public Health/Community Nurse/Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1612	Perioperative/Operating Room and Surgical Nurse/Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1616	Nursing Clinical Specialist	Health Science	8.10000	Therapeutic Services Pathway
			51.1617	Critical Care Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1618	Occupational and Environmental Health Nursing	Health Science	8.10000	Therapeutic Services Pathway
			51.1699	Nursing, Other	Health Science	8.10000	Therapeutic Services Pathway
29-1121	Audiologist	12.9	51.0201	Communication Disorders, General	Health Science	8.10000	Therapeutic Services Pathway
			51.0202	Audiology/Audiologist & Hearing Sciences	Health Science	8.10000	Therapeutic Services Pathway
			51.0204	Audiology/Audiologist & Speech-Language	Health Science	8.10000	Therapeutic Services Pathway
			51.0299	Communication Disorders Sciences & Services, Other	Health Science	8.10000	Therapeutic Services Pathway
29-1122	Occupational therapist	9.7	51.2306	Occupational Therapy/Therapist	Health Science	8.30000	Health Informatics Pathway
29-1124	Radiation therapist	24.9	51.0907	Medical Radiologic Technology/Science Radiation Therapist	Health Science	8.10000	Therapeutic Services Pathway
29-1125	Recreational therapist	15.4	51.2309	Therapeutic Recreation/Recreational Therapy	Health Science	8.30000	Health Informatics Pathway
29-1127	Speech language pathologist	4.7	51.0201	Communication Disorders, General	Health Science	8.10000	Therapeutic Services Pathway
			51.0203	Speech-Language Pathology/Pathologist	Health Science	8.10000	Therapeutic Services Pathway
			51.0204	Audiology/Audiologist & Speech-Language	Health Science	8.10000	Therapeutic Services Pathway
			51.0299	Communication Disorders Sciences & Services, Other	Health Science	8.10000	Therapeutic Services Pathway
29-201x	Clinical laboratory technologist and technician	21.9	51.1002	Cytotechnology/Cytotechnologist	Health Science	8.10000	Therapeutic Services Pathway
			51.1005	Clinical Laboratory Science/Medical Technology/Technologist	Health Science	8.10000	Therapeutic Services Pathway+J109
			51.1007	Histologic Technology/Histotechnologist (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.1099	Clinical/Medical Laboratory Science & Allied Professions, Other	Health Science	8.10000	Therapeutic Services Pathway
			51.0802	Clinical/Medical Laboratory Technician/Assistant (Certificate)	Health Science	8.10000	Therapeutic Services Pathway+J112
			51.1001	Blood Bank Technology Specialist	Health Science	8.10000	Therapeutic Services Pathway
			51.1003	Hematology Technology/Technician	Health Science	8.10000	Therapeutic Services Pathway+J114
			51.1004	Clinical/Medical Laboratory Technician	Health Science	8.10000	Therapeutic Services Pathway
			51.1008	Histologic Technician (New)	Health Science	8.10000	Therapeutic Services Pathway
29-2021	Dental hygienist	1.4	51.0602	Dental Hygiene/Hygienist	Health Science	8.10000	Therapeutic Services Pathway
29-205x	Health diagnosing and treating practitioner support technician	19.9	19.0501	Foods, Nutrition, & Wellness Studies, General	Health Science	8.40000	Support Services Pathway
			30.1901	Nutrition Sciences	Health Science	15.30000	Science and Mathematics Pathway
			51.3101	Dietetics/Dietician (RD)	Health Science	8.10000	Therapeutic Services Pathway
			51.3103	Dietetic Technician (DTR)	Health Science	8.10000	Therapeutic Services Pathway
			51.3104	Dietitian Assistant	Health Science	8.10000	Therapeutic Services Pathway
			51.0805	Pharmacy Technician	Health Science	8.10000	Therapeutic Services Pathway

			51.1502	Psychiatric/Mental Health Services Technician	Health Science	8.10000	Therapeutic Services Pathway
			51.0808	Veterinary/Animal Health Technology/Technician & Veterinary	Health Science	8.10000	Therapeutic Services Pathway
			51.0811	Pathology/Pathologist Assistant	Health Science	8.20000	Diagnostics Services Pathway
			51.0812	Respiratory Therapy Technician	Health Science	8.20000	Diagnostics Services Pathway
			51.0909	Surgical Technology/Technologist	Health Science	8.10000	Therapeutic Services Pathway
29-2061	Licensed practical and licensed vocational nurse	5.8	51.1613	Licensed Practical Nurse Training (LPN, Cert, Dipl, AAS)	Health Science	8.10000	Therapeutic Services Pathway
29-2071	Medical records and health information technician	8.0	51.0707	Health Information/Medical Records Technology/Technician	Health Science	8.30000	Health Informatics Pathway
			51.0713	Medical Insurance Coding Specialist/Coder	Health Science	8.30000	Health Informatics Pathway
31-101x	Nursing, psychiatric, and home health aides	11.1	51.1502	Psychiatric/Mental Health Services Technician	Health Science	8.10000	Therapeutic Services Pathway
			51.1614	Nurse/Nursing Assistant/Aide	Health Science	8.10000	Therapeutic Services Pathway
			51.2601	Health Aide	Health Science	8.10000	Therapeutic Services Pathway
			51.2602	Home Health Aide/Home Attendant	Health Science	8.10000	Therapeutic Services Pathway
31-201x	Occupational therapist and aid	8.9	51.0803	Occupational Therapy Assistant	Health Science	8.10000	Therapeutic Services Pathway
31-202x	Physical therapist assistant and aide	21.6	51.0806	Physical Therapy Assistant	Health Science	8.10000	Therapeutic Services Pathway
31-9011	Massage therapist	15.9	51.3501	Massage Therapy/Therapeutic Massage	Health Science	8.10000	Therapeutic Services Pathway
			51.3502	Asian Bodywork Therapy	Health Science	8.10000	Therapeutic Services Pathway
			51.3503	Somatic Bodywork	Health Science	8.10000	Therapeutic Services Pathway
			51.3599	Somatic Bodywork and Related Therapeutic Services, Other	Health Science	8.10000	Therapeutic Services Pathway
31-9091	Dental assistant	4.6	51.0601	Dental Assisting/Assistant	Health Science	8.10000	Therapeutic Services Pathway
31-9092	Medical assistants and other healthcare support occupations	9.9	51.0712	Medical Reception/Receptionist (New)	Health Science	8.30000	Health Informatics Pathway
			51.0713	Medical Insurance Coding Specialist/Coder (New)	Health Science	8.30000	Health Informatics Pathway
			51.0716	Medical Administrative/Executive Assistant & Medical Secretary	Health Science	8.30000	Health Informatics Pathway
			51.0801	Medical/Clinical Assistant	Health Science	8.10000	Therapeutic Services Pathway
			51.0809	Anesthesiologist Assistant (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0813	Chiropractic Assistant/Technician (NEW)	Health Science	8.20000	Diagnostics Services Pathway
			51.0899	Health asnd Medical Assisting Services, Other	Health Science	8.20000	Diagnostics Services Pathway
			51.1802	Optometric Technician/Assistant	Health Science	8.20000	Diagnostics Services Pathway
			51.1803	Ophthalmic Technician/Technologist	Health Science	8.10000	Therapeutic Services Pathway
			51.1804	Orthoptics/Orthoptist	Health Science	Not reported	
35-9031	Host and hostess, restaurant, lounge, and coffee shop	13.6	12.0507	Food Service, Waiter/Waitress, & Dining Room	Hospitality & Tourism	9.10000	Restaurants and Food and Beverage Services Pathway
37-2012	Maid and housekeeping cleaner	9.7	99.9990	No related CIP programs	Hospitality & Tourism	Not reported	
39-5012	Hairdresser, hairstylist, and cosmetologist	6.6	12.0401	Cosmetology/Cosmetologist, General	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0404	Electrolysis/Electrology & Electrolysis Technician	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0406	Make-Up Artist/Specialist	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway

			12.0407	Hair Styling/Stylist & Hair Design	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0411	Permanent Cosmetics/Makeup & Tattooing	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0412	Salon/Beauty Salon Management/Manager	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0413	Cosmetology, Barber/Styling, & Nail Instructor	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0499	Cosmetology & Related Personal Grooming Arts, Other	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
39-509x	Misc. personal appearance worker	17	12.0401	Cosmetology/Cosmetologist, General	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0406	Make-Up Artist/Specialist	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0407	Hair Styling/Stylist & Hair Design	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0408	Facial Treatment Specialist/Facialist	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
			12.0410	Nail Technician/Specialist & Manicurist	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
39-9011	Childcare worker	5.8	19.0709	Child Care Provider/Assistant	Human Service	10.10000	Early Childhood Development and Services Career
39-903x	Personal and home care aide	12.7	99.9990	No related CIP programs	Human Service	Not reported	
41-3041	Travel agent	22.7	52.1905	Tourism and Travel Services Marketing Operations	Retail & Wholesale Sales & Service	9.30000	Travel and Tourism Pathway
41-901x	Model, demonstrator, and product promoter	15.8	52.1803	Retailing & Retail Operations	Retail & Wholesale Sales & Service	14.20000	Professional Sales and Marketing Pathway
			52.1903	Fashion Modeling	Retail & Wholesale Sales & Service	14.20000	Professional Sales and Marketing Pathway
43-2011	Switchboard operators, including answering service	12.3	52.0406	Receptionist	Business & Administration	4.60000	Administrative and Information Support Pathway
43-2021	Telephone operator	23.6	52.0406	Receptionist	Arts, A/V Technology & Communication	4.60000	Administrative and Information Support Pathway
			52.0411	Customer Service Support/Call Center/Teleservice Operation	Arts, A/V Technology & Communication	4.60000	Administrative and Information Support Pathway
43-3021	Billing and posting clerk and machine operator	11.9	52.0302	Accounting Technology/Technician & Bookkeeping	Finance	4.20000	Business Financial Management and Accounting Pathway
43-3031	Bookkeeping, accounting, and auditing clerk	9.7	52.0302	Accounting Technology/Technician & Bookkeeping	Finance	4.20000	Business Financial Management and Accounting Pathway
			52.0399	Accounting & Related Services, Other	Finance	4.20000	Business Financial Management and Accounting Pathway
43-3051	Payroll and timekeeping clerk	7.6	52.0302	Accounting Technology/Technician & Bookkeeping	Finance	4.20000	Business Financial Management and Accounting Pathway
43-3041	Gaming cage worker	24.0	52.0302	Accounting Technology/Technician & Bookkeeping	Hospitality & Tourism	4.20000	Business Financial Management and Accounting Pathway
43-3061	Procurement clerk	19.8	52.0408	General Office Occupations & Clerical Services	Finance	4.60000	Administrative and Information Support Pathway
43-3071	Teller	15.2	52.0803	Banking & Financial Support Services	Finance	6.30000	Banking and Related Services Pathway
43-4021	Correspondence clerk	6.3	52.0408	General Office Occupations & Clerical Services	Business & Administration	4.60000	Administrative and Information Support Pathway
43-4031	Court, municipal, and license clerk	19.3	52.0408	General Office Occupations & Clerical Services	Government & Public Administration	4.60000	Administrative and Information Support Pathway
43-4041	Credit authorizer, checker, and clerk	12.7	52.0803	Banking & Financial Support Services	Finance	6.30000	Banking and Related Services Pathway
43-4061	Eligibility interviewer, govt programs	13.7	44.0201	Community Organization & Advocacy	Human Service	10.30000	Family and Community Services Career Pathway

43-4071	File clerk	20.8	52.0408	General Office Occupations & Clerical Services	Business & Administration	4.60000	Administrative and Information Support Pathway
43-4111	Interviewer, except eligibility and loan	17.9	52.0406	Receptionist	Business & Administration	4.60000	Administrative and Information Support Pathway
43-4121	Library assistant, clerical	12.1	25.0301	Library Assistant	Education & Training	12.50000	Legal Services Pathway
43-4131	Loan interviewer and clerk	23.3	52.0803	Banking & Financial Support Services	Finance	6.30000	Banking and Related Services Pathway
43-4161	Human resource assistant, except payroll and timekeeping	8.1	52.0408	General Office Occupations & Clerical Services	Business & Administration	6.30000	Banking and Related Services Pathway
43-4171	Receptionist and information clerk	7.3	51.0703	Health Unit Coordinator/Ward Clerk	Business & Administration	8.30000	Health Informatics Pathway
			51.0712	Medical Reception/Receptionist	Hospitality & Tourism	8.30000	Health Informatics Pathway
			52.0406	Receptionist	Hospitality & Tourism	4.60000	Administrative and Information Support Pathway
			52.0408	General Office Occupations & Clerical Services	Hospitality & Tourism	4.60000	Administrative and Information Support Pathway
43-4199	Information and records clerk, all other	11.7	52.0408	General Office Occupations & Clerical Services	Business & Administration	6.30000	Banking and Related Services Pathway
43-601x	Secretary and administrative asst.	3.1	22.0301	Legal Administrative Assistant/Secretary	Business & Administration	12.50000	Legal Services Pathway
			51.0710	Medical Office Assistant/ Specialist	Business & Administration	8.30000	Health Informatics Pathway
			51.0714	Medical Insurance Specialist/Medical Biller	Business & Administration	8.30000	Health Informatics Pathway
			51.0716	Medical Administrative/Executive Assistant & Medical Secretary	Business & Administration	8.30000	Health Informatics Pathway
			52.0401	Administrative Assistant & Secretarial Science, General	Business & Administration	4.60000	Administrative and Information Support Pathway
			52.0402	Executive Assistant/Executive Secretary	Business & Administration	4.60000	Administrative and Information Support Pathway
43-9021	Data entry keyers	18.4	11.0601	Data Entry/Microcomputer Applications	Business & Administration	4.60000	Administrative and Information Support Pathway
			52.0407	Business/Office Automation/Technology/Data Entry	Business & Administration	4.60000	Administrative and Information Support Pathway
43-9022	Word processor and typist	8.8	11.0602	Word Processing (New)	Business & Administration	4.60000	Administrative and Information Support Pathway
			52.0408	General Office Occupations & Clerical Services	Business & Administration	4.60000	Administrative and Information Support Pathway
43-9031	Desktop publisher	21.9	10.0303	Prepress/Desktop Publishing & Digital Imaging Design	Arts, A/V Technology & Communication	3.20000	Printing Technologies Pathway
43-9041	Insurance claims and policy processing clerk	12.4	52.0408	General Office Occupations & Clerical Services	Finance	4.60000	Administrative and Information Support Pathway
43-9061	Office clerk, general	18.1	52.0408	General Office Occupations & Clerical Services	Business & Administration	4.60000	Administrative and Information Support Pathway
43-9199	Office and administrative support workers, all others	21.7	52.0408	General Office Occupations & Clerical Services	Business & Administration	4.60000	Administrative and Information Support Pathway
			52.0499	Business Operations Support & Secretarial Services, Other	Business & Administration	4.60000	Administrative and Information Support Pathway
51-6031	Sewing machine operator	22.1	99.9990	No related CIP programs	Manufacturing	Not reported	

(a) From USDOL BLS Standard Classification System, available at www.bls.gov/soc/. "x" as last digit denotes entire series.

(b) From unpublished Table 1: Employed and experienced unemployed persons by detailed occupation, sex, race, and Hispanic or Latino ethnicity,

Annual Average 2006. Available at http://www.napequity.org/pdf/OI01_2006.pdf

(c) File Download from CIP (2000) webpage on Career Clusters website, available at <http://nces.ed.gov/pubs2002/cip2000/index.asp>.

(d) From CIP/Pathways crosswalk available at <http://edcountability.net>

Crosswalk Process

(1) Nontraditional occupations (for males, defined as greater than 75% women) were identified in Table 11 referenced in footnote (b) above.

(2) The SOC codes for the NTOs identified in step (1) were found by matching the occupation titles in Table 1 to the titles at www.bls.gov/soc.

(3) The CIP codes for the identified SOC codes identified in step (2) were found in the crosswalk file download referenced in footnote (c) above.

(4) The USDOE Career Cluster and Pathway were identified by using the Linking the US Dept. of Education's Career Clusters and Career Pathways to the *Classification of Instructional Programs, 2000 Edition* available at <http://edcountability.net>

Caveat: This is not a comprehensive list of nontraditional occupations.

The BLS reports data for certain occupations in very broad categories (e.g., postsecondary teachers). Because such categories are not disaggregated, NAPE can not identify specialities within the categories that might be nontraditional for either gender. Likewise, certain NCES program titles that appear to be nontraditional in nature (e.g., motorcycle maintenance and repair technology) crosswalk to SOC codes that are not reported in the BLS table and, therefore, can not be verified as nontraditional.

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11-1011	Chief executive	23.4	44.0401	Public Administration	Business & Administration	4.10000 Management Pathway
			44.0501	Public Policy Analysis	Government & Public Administration	7.10000 Governance Career Pathway
			44.9999	Public Administration & Services, Other	Government & Public Administration	10.30000 Family and Community Services Career
			52.0101	Business/Commerce, General	Business & Administration	4.10000 Management Pathway
			52.0201	Business Administration/Management	Business & Administration	4.10000 Management Pathway
			52.0209	Transportation/Transportation Management (New)	Business & Administration	16.20000 Logistics Planning and Management
			52.0701	Entrepreneurship/Entrepreneurial Studies	Business & Administration	4.10000 Management Pathway
52.1101	International Business/Trade/Commerce	Business & Administration	4.10000 Management Pathway			
11-3011	Administrative services manager	24.4	44.0401	Public Administration	Business & Administration	7.10000 Governance Career Pathway
11-3051	Industrial production manager	16.4	52.0101	Business/Commerce, General	Business & Administration	4.10000 Management Pathway
			52.0201	Business Administration/Management	Manufacturing	4.10000 Management Pathway
			52.0205	Operations Management & Supervision	Manufacturing	4.10000 Management Pathway
11-3071	Transportation, storage, and distribution manager	14.6	44.0401	Public Administration	Transportation, Distribution, & Logistics	4.10000 Management Pathway
			49.0101	Aeronautics/Aviation/Aerospace Science & Technology, General	Transportation, Distribution, & Logistics	16.10000 Transportation Operations Pathway
			49.0104	Aviation/Airway Management & Operations	Transportation, Distribution, & Logistics	16.10000 Transportation Operations Pathway
			52.0101	Business/Commerce, General	Transportation, Distribution, & Logistics	4.10000 Management Pathway
			52.0201	Business Administration/Management	Transportation, Distribution, & Logistics	4.10000 Management Pathway
			52.0203	Logistics & Materials Management	Transportation, Distribution, & Logistics	4.10000 Management Pathway
			52.0203	Transportation/Transportation Management (New)	Transportation, Distribution, & Logistics	4.10000 Management Pathway
11-9011	Farm, ranch and other agricultural manager	21.8	1.0101	Agricultural Business & Management, General	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0102	Agribusiness/Agricultural Business Operations	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0104	Farm/Farm & Ranch Management	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0199	Agricultural Business & Management, Other	Agriculture/Natural Resource	1.10000 Food Products and Processing Systems
			1.0301	Agricultural Production Operations, General	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0302	Animal/Livestock Husbandry & Production	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0304	Crop Production	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0306	Dairy Husbandry & Production (New)	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0307	Horse Husbandry/Equine Science & Management (New)	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0399	Agricultural Production Operations, Other	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0603	Ornamental Horticulture	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0604	Greenhouse Operations & Management	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0606	Plant Nursery Operations & Management	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.0901	Animal Sciences, General	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0902	Agricultural Animal Breeding	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0904	Animal Nutrition	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0905	Dairy Science	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0906	Livestock Management (New)	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.0907	Poultry Science (New)	Agriculture/Natural Resource	1.30000 Animal Systems Pathway
			1.1101	Plant Sciences, General	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
			1.1102	Agronomy & Crop Science	Agriculture/Natural Resource	1.20000 Plant Systems Pathway
1.1103	Horticultural Science	Agriculture/Natural Resource	1.20000 Plant Systems Pathway			
1.1105	Plant Protection & Integrated Pest Management	Agriculture/Natural Resource	1.20000 Plant Systems Pathway			
1.1106	Range Science & Management	Agriculture/Natural Resource	1.20000 Plant Systems Pathway			
11-9021	Construction manager	7.8	15.1001	Construction Engineering Technology/Technician	Architecture & Construction	2.20000 Construction Pathway
			52.0101	Business/Commerce, General	Architecture & Construction	4.10000 Management Pathway
			52.0201	Business Administration/Management	Architecture & Construction	4.10000 Management Pathway
			52.0205	Operations Management & Supervision	Architecture & Construction	4.10000 Management Pathway
			52.2001	Construction Management	Architecture & Construction	2.20000 Construction Pathway
11-9041	Engineering manager	7.3	4.0201	Architecture (BArch, BA/BS, MArch, MA/MS, PhD)	Scientific Research/Engineering	2.10000 Design/Pre-construction Pathway
			4.0301	City/Urban, Community & Regional Planning	Scientific Research/Engineering	7.40000 Planning Career Pathway
			4.0401	Environmental Design/Architecture	Scientific Research/Engineering	2.10000 Design/Pre-construction Pathway
			4.0501	Interior Architecture	Scientific Research/Engineering	2.10000 Design/Pre-construction Pathway
			4.0601	Landscape Architecture (BS, BSLA, BLA, MSLA, MLA, PhD)	Scientific Research/Engineering	2.10000 Design/Pre-construction Pathway
			14.0101	Engineering, General	Scientific Research/Engineering	15.10000 Engineering and Technology Pathway
			14.0201	Aerospace, Aeronautical & Astronautical Engineering	Scientific Research/Engineering	15.10000 Engineering and Technology Pathway
			14.0301	Agricultural/Biological Engineering & Bioengineering	Scientific Research/Engineering	15.10000 Engineering and Technology Pathway
			14.0401	Architectural Engineering	Scientific Research/Engineering	15.10000 Engineering and Technology Pathway
			14.0501	Biomedical/Medical Engineering	Scientific Research/Engineering	15.10000 Engineering and Technology Pathway

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			11.9999	Computer & Information Sciences & Support Services, Other	Information Technology	11.20000	Information Support Services
15-2011	Actuary	22.7	52.1304	Actuarial Science	Finance	Not reported	
15-209x	Misc mathematical science occupations	19.8	27.0101	Mathematics, General	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			27.0301	Applied Mathematics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			27.0303	Computational Mathematics (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			27.0399	Applied Mathematics, Other	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			27.9999	Mathematics & Statistics, Other	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
17-101x	Architects, except naval	22.2	4.0201	Architecture (BArch, BA/BS, MArch, MA/MS, PhD)	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			4.0401	Environmental Design/Architecture	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			4.0801	Architectural History & Criticism (New)	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			4.9999	Architecture & Related Programs, Other	Architecture & Construction	2.10000	Design/Pre-construction Pathway
17-102x	Surveyors, cartographers, and photogrammetrists	19.1	15.1102	Surveying Technology/Surveying	Scientific Research/Engineering	2.10000	Design/Pre-construction Pathway
			45.0702	Cartography	Scientific Research/Engineering	Not reported	
17-2011	Aerospace engineer	13.1	14.0201	Aerospace, Aeronautical & Astronautical Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2041	Chemical engineer	17.1	14.0701	Chemical Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2051	Civil engineer	11.9	14.0801	Civil Engineering, General	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.0804	Transportation & Highway Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.0805	Water Resources Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.0899	Civil Engineering, Other	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2061	Computer hardware engineer	16.2	14.0901	Computer Engineering, General	Information Technology	11.40000	Programming and Software Development
			14.0902	Computer Hardware Engineering (New)	Information Technology	15.10000	Engineering and Technology Pathway
17-207x	Electrical and electronics engineer	7.7	14.1001	Electrical, Electronics & Communications Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2081	Environmental engineer	2.4	14.1401	Environmental/Environmental Health Engineering	Agriculture/Natural Resource	15.10000	Engineering and Technology Pathway
17-211x	Industrial engineer, including health and safety	22.6	14.1401	Environmental/Environmental Health Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.3501	Industrial Engineering (New)	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2121	Marine engineer and naval architect	10.9	14.2201	Naval Architecture & Marine Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2131	Materials engineer	4.9	14.0601	Ceramic Sciences & Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.1801	Materials Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.2001	Metallurgical Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2141	Mechanical engineer	5.8	14.1901	Mechanical Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2151	Mining and geological engineer, incl mining safety engineer	23.2	14.2101	Mining & Mineral Engineering	Agriculture/Natural Resource	15.10000	Engineering and Technology Pathway
					Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2161	Nuclear engineer	23.7	14.2301	Nuclear Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
					Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2171	Petroleum engineer	2.5	14.2501	Petroleum Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
17-2199	Engineers, all others	13.1	14.0101	Engineering, General	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.0401	Architectural Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.1101	Engineering Mechanics	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.1201	Engineering Physics	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.1301	Engineering Science	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.2401	Ocean Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.2701	Systems Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.2801	Textile Sciences & Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.3201	Polymer/Plastics Engineering	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.3301	Construction Engineering (New)	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.3401	Forest Engineering (New)	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.3601	Manufacturing Engineering (New)	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.3801	Surveying Engineering (New)	Scientific Research/Engineering	2.10000	Design/Pre-construction Pathway
			14.3901	Geological/Geophysical Engineering (New)	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			14.9999	Engineering, Other	Scientific Research/Engineering	15.10000	Engineering and Technology Pathway
			51.2312	Assistive/Augmentative Technology & Rehabilitation Engineering	Scientific Research/Engineering	8.30000	Health Informatics Pathway

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17-301x	Drafter	21.8	4.0901	Architectural Technology/Technician (New)	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1301	Drafting & Design Technology/Technician, General	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1302	CAD/CADD Drafting &/or Design Technology/Technician (New)	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1303	Architectural Drafting & Architectural CAD/CADD	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1304	Civil Drafting & Civil Engineering CAD/CADD	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1305	Electrical/Electronics Drafting & Electrical/Electronics CAD/CADD	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1306	Mechanical Drafting & Mechanical Drafting CAD/CADD	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			15.1399	Drafting/Design Engineering Technologies/Technicians, Other	Architecture & Construction	2.10000	Design/Pre-construction Pathway
			17-302x	Engineering technician, except drafter	20.6	15.0101	Architectural Engineering Technology/Technician
15.0201	Civil Engineering Technology/Technician	Manufacturing				2.10000	Design/Pre-construction Pathway
15.0303	Electrical, Electronic & Communications Engineering	Manufacturing				13.30000	Electromechanical Installation and
15.0304	Laser & Optical Technology/Technician	Manufacturing				13.40000	Precision Technology Processes Pathway
15.0305	Telecommunications Technology/Technician (New)	Manufacturing				13.30000	Electromechanical Installation and
15.0399	Electrical & Electronic Engineering Technologies/Technicians,	Manufacturing				13.30000	Electromechanical Installation and
15.0503	Energy Management & Systems Technology/Technician	Manufacturing				2.20000	Construction Pathway
15.0505	Solar Energy Technology/Technician	Manufacturing				2.20000	Construction Pathway
15.0507	Environmental Engineering Technology/Environmental Technology	Agriculture/Natural Resource				1.60000	Environmental Service Systems Pathway
15.0599	Environmental Control Technologies/Technicians, Other	Manufacturing				1.60000	Environmental Service Systems Pathway
15.0607	Plastics Engineering Technology/Technician	Manufacturing				13.30000	Electromechanical Installation and
15.0611	Metallurgical Technology/Technician	Manufacturing				13.30000	Electromechanical Installation and
15.0612	Industrial Technology/Technicians	Manufacturing				13.30000	Electromechanical Installation and
15.0613	Manufacturing Technology/Technician (New)	Manufacturing				13.30000	Electromechanical Installation and
15.0699	Industrial Production Technologies/Technicians, Other	Manufacturing				13.30000	Electromechanical Installation and
15.0704	Hazardous Materials Information Systems Technology/Technician	Agriculture/Natural Resource				1.60000	Environmental Service Systems Pathway
15.0801	Aeronautical/Aerospace Engineering Technology/Technician	Transportation, Distribution, & Logistics				Not reported	
15.0805	Mechanical Engineering/Mechanical Technology/Technician	Manufacturing				Not reported	
15.0899	Mechanical Engineering Related Technology/Technician, Other	Manufacturing				Not reported	
15.0901	Mining Technology/Technician	Manufacturing				Not reported	
15.0999	Mining & Petroleum Technologies/Technicians, Other	Manufacturing	Not reported				
15.1001	Construction Engineering Technology/Technician	Manufacturing	2.20000	Construction Pathway			
15.1103	Hydraulics & Fluid Power Technology/Technician	Manufacturing	13.30000	Electromechanical Installation and			
15.1201	Computer Engineering Tech/Tech Manuf	Manufacturing	13.30000	Electromechanical Installation and			
15.1202	Computer Technology/Computer Systems Technology	Manufacturing	13.30000	Electromechanical Installation and			
15.1501	Industrial Management (New)	Manufacturing	15.10000	Engineering and Technology Pathway			
15.9999	Engineering Related Technologies/Technicians, Other	Manufacturing	15.10000	Engineering and Technology Pathway			
17-3031	Surveying and mapping technician	9.9	15.1102	Surveying Technology/Surveying	Scientific Research/Engineering	2.10000	Design/Pre-construction Pathway
			45.0702	Cartography	Scientific Research/Engineering	Not reported	
19-101x	Agricultural and food scientist	22.3	1.0000	Agriculture, General	Agriculture/Natural Resource	1.20000	Plant Systems Pathway+J295
			1.0701	International Agriculture	Agriculture/Natural Resource	1.70000	Business Systems Pathway
			1.0901	Animal Sciences, General	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.0902	Agricultural Animal Breeding	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.0903	Animal Health	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.0904	Animal Nutrition	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.0905	Dairy Science	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.0907	Poultry Science (New)	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.0999	Animal Sciences, Other	Agriculture/Natural Resource	1.30000	Animal Systems Pathway
			1.1001	Food Science (New)	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1002	Food Technology & Processing (New)	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1101	Plant Sciences, General	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1102	Agronomy & Crop Science	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1103	Horticultural Science	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1104	Agricultural & Horticultural Plant Breeding (New)	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1105	Plant Protection & Integrated Pest Management	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1106	Range Science & Management	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1199	Plant Sciences, Other	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
			1.1201	Soil Science & Agronomy, General	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.1202	Soil Chemistry & Physics (New)	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
1.1203	Soil Microbiology (New)	Agriculture/Natural Resource	1.20000	Plant Systems Pathway			
10-103x	Conservation and scientist	13.0	3.0101	Natural Resources/Conservation, General	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0201	Natural Resources Management & Policy, General	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0205	Water, Wetlands, & Marine Resources Management (New)	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0206	Land Use Planning & Management/Development (New)	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0299	Natural Resources Management & Policy, Other	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0501	Forestry, General	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0502	Forest Sciences	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0506	Forest Management/ Forest Resources Management	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0508	Urban Forestry (New)	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway

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			3.0509	Wood Science & Wood Products/Pulp & Paper Technology	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0510	Forest Resources Production & Management (New)	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0599	Forestry, Other	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.0601	Wildlife & Wildlands Science & Management	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
			3.9999	Natural Resources & Conservation, Other	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
19-201x	Astronomer and physicist	11.8	40.0201	Astronomy	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0202	Astrophysics (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0203	Planetary Astronomy & Science (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0299	Astronomy and Astrophysics, Other	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0801	Physics, General	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0802	Atomic/Molecular Physics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0804	Elementary Particle Physics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0805	Plasma & High-Temperature Physics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0806	Nuclear Physics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0807	Optics/Optical Sciences	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0808	Solid State & Low-Temperature Physics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0809	Acoustics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0810	Theoretical & Mathematical Physics	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0899	Physics, Other	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			51.2205	Health/Medical Physics	Scientific Research/Engineering	8.30000	Health Informatics Pathway
19-202x	Atmospheric and space scientist	5.1	40.0401	Atmospheric Sciences & Meteorology, General	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0402	Atmospheric Chemistry & Climatology (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0403	Atmospheric Physics & Dynamics (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0404	Meteorology (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0499	Atmospheric Sciences & Meteorology, Other (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
19-204x	Environmental scientist and geoscientist	22.0	3.0103	Environmental Studies (New)	Scientific Research/Engineering	1.50000	Natural Resources Systems Pathway
			3.0104	Environmental Science (New)	Scientific Research/Engineering	1.50000	Natural Resources Systems Pathway
			40.0601	Geology/Earth Science, General	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0602	Geochemistry	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0603	Geophysics & Seismology	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0604	Paleontology	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0605	Hydrology & Water Resources Science (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0606	Geochemistry & Petrology (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0607	Oceanography, Chemical & Physical (New)	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
			40.0699	Geological & Earth Sciences/Geosciences, Other	Scientific Research/Engineering	15.30000	Science and Mathematics Pathway
19-4041	Geological and petroleum technician	13.0	15.0903	Petroleum Technology/Technician	Agriculture/Natural Resource	Not reported	
21-2011	Clergy	15.5	39.0601	Theology/Theological Studies	Human Service	Not reported	
			39.0602	Divinity/Ministry (BD, MDiv.)	Human Service	Not reported	
			39.0604	Pre-Theology/Pre-Ministerial Studies	Human Service	Not reported	
			39.0605	Rabbinical Studies (M.H.L./Rav)	Human Service	Not reported	
			39.0699	Theological & ministerial Studies, Other	Human Service	Not reported	
			39.0701	Pastoral Studies/Counseling	Human Service	Not reported	
			39.0702	Youth Ministry (New)	Human Service	Not reported	
			39.0799	Pastoral Counseling & Specialized Ministries, Other (New)	Human Service	Not reported	
			39.9999	Theological Studies & Religious Vocations, Other	Human Service	Not reported	
			51.1506	Clinical Pastoral Counseling/Patient Counseling (New)	Human Service	10.20000	Counseling and Mental Health Services
27-301x	Announcer	12.2	9.0101	Radio and Television	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			9.0701	Commun. Studies/Speech Commun. & Rhet.	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			9.0402	Broadcast Journalism	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
27-401x	Broadcast and sound engineering technician and radio operator	15.6	1.0802	Agricultural Communications/Journalism (New)	Arts, A/V Technology & Communication	1.70000	Business Systems Pathway
			9.0701	Radio & Television	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			10.0105	Communications Technology/Technician (New)	Arts, A/V Technology & Communication	3.60000	Telecommunications Technologies Pathway
			10.0201	Photographic & Film/Video Technology/Technician & Assistant.	Arts, A/V Technology & Communication	3.30000	Visual Arts Pathway
			10.0202	Radio & Television Broadcasting Technology/Technician	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			10.0203	Recording Arts Technology/Technician (New)	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			10.0299	Audiovisual Communications Technologies/Technicians, Other	Arts, A/V Technology & Communication	3.10000	Audio and Video Technologies Pathway
			47.0103	Communications Systems Installation & Repair Technology	Law & Public Safety	3.60000	Telecommunications Technologies Pathway
27-403x	Television, video, and motion picture camera operators and editors	19.1	9.0404	Photojournalism (New)	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			9.0701	Radio & Television	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			10.0105	Communications Technology/Technician (New)	Arts, A/V Technology & Communication	3.60000	Telecommunications Technologies
			10.0202	Radio & Television Broadcasting Technology/Technician	Arts, A/V Technology & Communication	3.50000	Journalism and Broadcasting Pathway
			10.0299	Audiovisual Communications Technologies/Technicians, Other	Arts, A/V Technology & Communication	3.10000	Audio and Video Technologies Pathway

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			50.0602	Cinematography & Film/Video Production	Arts, A/V Technology & Communication	3.40000	Performing Arts Pathway
29-1011	Chiropractor	21.8	51.0101	Chiropractic (DC)	Health Science	8.10000	Therapeutic Services Pathway
29-102x	Dentist	22.5	51.0401	Dentistry (DDS, DMD)	Health Science	8.10000	Therapeutic Services Pathway
			51.0501	Dental Clinical Sciences, General (MS, PhD)	Health Science	8.10000	Therapeutic Services Pathway
			51.0502	Advanced General Dentistry (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0503	Oral Biology & Pathology (MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0504	Dental Public Health & Education (Cert, MS/MPH, PhD/DPH)	Health Science	8.10000	Therapeutic Services Pathway
			51.0505	Dental Materials (MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0506	Endodontics/Endodontology (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0507	Oral/Maxillofacial Surgery (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0508	Orthodontics/Orthodontology (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0509	Pediatric Dentistry/Pedodontics (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0510	Periodontics/Periodontology (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0511	Prosthodontics/Prosthodontology (Cert, MS, PhD) (New)	Health Science	8.10000	Therapeutic Services Pathway
			51.0599	Advanced/Graduate Dentistry & Oral Sciences, Other (New)	Health Science	8.10000	Therapeutic Services Pathway
			60.0101	Dental/Oral Surgery Specialty	Health Science	Not reported	
			60.0102	Dental Public Health Specialty	Health Science	Not reported	
			60.0103	Endodontics Specialty	Health Science	Not reported	
			60.0104	Oral Pathology Specialty	Health Science	Not reported	
			60.0105	Orthodontics Specialty	Health Science	Not reported	
			60.0106	Pedodontics Specialty	Health Science	Not reported	
			60.0107	Periodontics Specialty	Health Science	Not reported	
			60.0108	Prosthodontics Specialty	Health Science	Not reported	
			60.0199	Dental Residency Program, Other	Health Science	Not reported	
33-1012	First-line supervisor/mgr of police and detectives	15.5	43.0102	Corrections	Law & Public Safety	12.10000	Correction Services Pathway
			43.0103	Criminal Justice/Law Enforcement Administration	Law & Public Safety	12.40000	Law Enforcement Services Pathway
			43.0104	Criminal Justice/Safety Studies	Law & Public Safety	12.40000	Law Enforcement Services Pathway
33-102x	First-line supervisors/mgt of fire fighting and prevention work	7.5	43.0201	Fire Protection & Safety Technology/Technician	Law & Public Safety	12.20000	Emergency and Fire Management Services
			43.0202	Fire Services Administration	Law & Public Safety	12.20000	Emergency and Fire Management Services
33-2011	Fire fighter	3.5	43.0203	Fire Science/Firefighting	Law & Public Safety	12.20000	Emergency and Fire Management Services
			43.0299	Fire Protection, Other	Law & Public Safety	12.20000	Emergency and Fire Management Services
33-202x	Fire inspector	9.0	43.0201	Fire Protection & Safety Technology/Technician	Law & Public Safety	12.20000	Emergency and Fire Management Services
			43.0203	Fire Science/Firefighting	Law & Public Safety	12.20000	Emergency and Fire Management Services
33-3031	Fish and game warden	23.7	3.0204	Natural Resource Economics (New)	Law & Public Safety	1.50000	Natural Resources Systems Pathway
			3.0301	Fishing & Fisheries Sciences & Management	Law & Public Safety	1.50000	Natural Resources Systems Pathway
			3.0601	Wildlife & Wildlands Science & Management	Law & Public Safety	1.50000	Natural Resources Systems Pathway
33-3051	Police and sheriff's patrol officer	12.8	43.0107	Criminal Justice/Police Science	Law & Public Safety	12.40000	Law Enforcement Services Pathway
			43.0111	Criminalistics & Criminal Science (New)	Law & Public Safety	12.40000	Law Enforcement Services Pathway
33-3052	Transit and railroad police	10.3	43.0109	Security & Loss Prevention Services	Law & Public Safety	12.30000	Security and Protective Services Pathway
			43.9999	Protective Services, Other	Law & Public Safety	12.30000	Security and Protective Services Pathway
33-903x	Security guards and gaming surveillance officers	23.0	99.9990	No related CIP programs	Law & Public Safety	Not reported	
			43.0109	Security & Loss Prevention Services	Law & Public Safety	12.30000	Security and Protective Services Pathway
			43.0112	Securities Services Administration/Management (New)	Law & Public Safety	12.30000	Security and Protective Services Pathway
35-1011	Chefs and head cooks	23.9	12.0500	Cooking & Related Culinary Arts, General (New)	Hospitality & Tourism	9.10000	Restaurants and Food and Beverage
			12.0503	Culinary Arts/Chef Training	Hospitality & Tourism	9.10000	Restaurants and Food and Beverage
35-9021	Dishwashers	23.9	12.0505	Food Preparation/Professional Cooking/Kitchen Assistant	Hospitality & Tourism	9.10000	Restaurants and Food and Beverage
37-1012	First-line supervisor/manager of landscaping, lawn service, and groundskeeping workers	8.0	1.0603	Ornamental Horticulture	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.0605	Landscaping & Groundskeeping	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.0607	Turf & Turfgrass Management	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
37-2021	Pest control workers	2.2	1.0105	Agricultural/Farm Supplies Retailing & Wholesaling	Agriculture/Natural Resource	1.10000	Food Products and Processing Systems
37-301x	Grounds maintenance workers	6.2	1.0601	Applied Horticulture/Horticultural Operations, General	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.0605	Landscaping & Groundskeeping	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.0606	Plant Nursery Operations & Management	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.0607	Turf & Turfgrass Management	Agriculture/Natural Resource	1.20000	Plant Systems Pathway
			1.0699	Horticultural Service Operations, Other	Agriculture/Natural Resource	1.20000	Plant Systems Pathway

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39-3021	Motion picture projectionists	8.9	99.9990	No related CIP programs	Arts, A/V Technology & Communication	Not reported	
39-4000	Funeral service worker	15.5	12.0301	Funeral Service & Mortuary Science, General	Health Science	10.40000	Personal Care Services Career Pathway
			12.0303	Mortuary Science & Embalming/Embalmer (New)	Retail & Wholesale Sales & Service Health Science	10.40000	Personal Care Services Career Pathway
39-5011	Barber	17.7	12.0402	Barbering/Barber	Retail & Wholesale Sales & Service	10.40000	Personal Care Services Career Pathway
39-6011	Baggage porters, bellhops, concierges	20.6	99.9990	No related CIP programs	Hospitality & Tourism	Not reported	
41-2022	Parts salesperson	16.3	52.1907	Vehicle Parts & Accessories Marketing Operations	Retail & Wholesale Sales & Service	16.70000	Sales and Service Pathway
41-9031	Sales engineer	18.8	52.1804	Selling Skills & Sales Operations	Retail & Wholesale Sales & Service	14.20000	Professional Sales and Marketing Pathway
43-5021	Courier and messenger	17.9	99.9990	No related CIP programs	Business & Administration	Not reported	
43-5041	Meter reader utilities	8.9	99.9990	No related CIP programs	Architecture & Construction	Not reported	
45-101x	First-line supervisors/managers of farming, fishing, and forestry	24.0	1.0104	Farm/Farm & Ranch Management	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0199	Agricultural Business & Management, Other	Agriculture & Natural Resources	1.10000	Food Products and Processing Systems
			1.0301	Agricultural Production Operations, General	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0302	Animal/Livestock Husbandry & Production	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0303	Aquaculture	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0304	Crop Production	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0306	Dairy Husbandry & Production (New)	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0307	Horse Husbandry/Equine Science & Management (New)	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0399	Agricultural Production Operations, Other	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0901	Animal Sciences, General	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0902	Agricultural Animal Breeding	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0904	Animal Nutrition	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0905	Dairy Science	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0906	Livestock Management (New)	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0907	Poultry Science (New)	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.1101	Plant Sciences, General	Agriculture & Natural Resources	1.10000	Food Products and Processing Systems
			1.1102	Agronomy & Crop Science	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.1106	Range Science & Management	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.9999	Agriculture, Agricultural Operations, & Related Sciences, Other.	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
3.0301	Fishing & Fisheries Sciences & Management	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway			
45-209x	Miscellaneous agricultural worker	20.4	1.0204	Agricultural Power Machinery Operation	Agriculture & Natural Resources	1.40000	Power Structure and Technical Systems
			1.0301	Agricultural Production Operations, General	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0302	Animal/Livestock Husbandry & Production	Agriculture & Natural Resources	1.30000	Animal Systems Pathway
			1.0303	Aquaculture	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0304	Crop Production	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0603	Ornamental Horticulture	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0604	Greenhouse Operations & Management	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
			1.0606	Plant Nursery Operations & Management	Agriculture & Natural Resources	1.20000	Plant Systems Pathway
45-3011	Fishers and related fishing workers	5.8	3.0101	Natural Resources/Conservation, General	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
45-4011	Forest and conservation worker	11.7	3.0101	Natural Resources/Conservation, General	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0299	Natural Resources Management & Policy, Other	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0501	Forestry, General	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0502	Forest Sciences	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0506	Forest Management/ Forest Resources Management	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0508	Urban Forestry (New)	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0509	Wood Science & Wood Products/Pulp & Paper Technology	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0510	Forest Resources Production & Management (New)	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.0599	Forestry, Other	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
			3.9999	Natural Resources & Conservation, Other	Agriculture & Natural Resources	1.50000	Natural Resources Systems Pathway
45-402x	Logging worker	0.2	3.0510	Forest Resources Production & Management (New)	Agriculture/Natural Resource	1.50000	Natural Resources Systems Pathway
47-1011	First-line supervisor/manager of construction trade	2.6	46.0101	Masonry/Mason	Architecture & Construction	2.20000	Construction Pathway
			46.0201	Carpentry/Carpenter	Architecture & Construction	2.20000	Construction Pathway
			46.0301	Electrical & Power Transmission Installation/Installer, General	Architecture & Construction	2.20000	Construction Pathway
			46.0302	Electrician	Architecture & Construction	2.20000	Construction Pathway
			46.0303	Lineworker	Architecture & Construction	2.20000	Construction Pathway

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			46.0399	Electrical & Power Transmission Installers, Other	Architecture & Construction	2.20000	Construction Pathway
			46.0401	Building/property Maintenance and Management	Architecture & Construction	2.20000	Construction Pathway
			46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0403	Building/Home/Construction Inspection/Inspector	Architecture & Construction	2.20000	Construction Pathway
			46.0404	Drywall Installation/Drywaller (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0406	Glazier (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0408	Painting/Painter & Wall Coverer	Architecture & Construction	2.20000	Construction Pathway
			46.0410	Roofer (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0412	Building/Construction Site Management/Manager	Architecture & Construction	2.20000	Construction Pathway
			46.0499	Building/Construction Finishing, Management, & Inspection, Other	Architecture & Construction	2.20000	Construction Pathway
			46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0504	Well Drilling/Driller (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0505	Blasting/Blaster (New)	Architecture & Construction	2.20000	Construction Pathway
			46.9999	Building/Construction Trades, Other	Agriculture/Natural Resource	2.20000	Construction Pathway
47-2011	Boilermaker	5.7	48.0801	Boilermaking/Boilermaker (New)	Manufacturing	2.20000	Construction Pathway
47-202x	Brickmason, blockmason, and stonemason	1.6	46.0101	Masonry/Mason	Architecture & Construction	2.20000	Construction Pathway
47-2031	Carpenter	2.4	46.0201	Carpentry/Carpenter	Architecture & Construction	2.20000	Construction Pathway
47-204x	Carpet, floor, and tile installer and finisher	2.4	46.0101	Masonry/Mason	Architecture & Construction	2.20000	Construction Pathway
			46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-205x	Cement mason, concrete finisher, and terrazzo worker	0.7	46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0499	Building/property Maintenance and Management	Architecture & Construction	2.20000	Construction Pathway
			46.0499	Building/Construction Finishing, Management, & Inspection, Other	Architecture & Construction	2.20000	Construction Pathway
47-2061	Construction laborer	3.7	46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-2071	Paving, surfacing, and tamping equipment operators	0.7	49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Architecture & Construction	2.20000	Construction Pathway
47-2073	Operating engineer and other construction equipment operator	1.7	49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Architecture & Construction	2.20000	Construction Pathway
			49.0206	Mobil Crane Operation/Operator (New)	Architecture & Construction	2.20000	Construction Pathway
47-208x	Drywall installer, ceiling tile installer and taper	2.9	46.0404	Drywall Installation/Drywaller (New)	Architecture & Construction	2.20000	Construction Pathway
			46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-2111	Electrician	1.9	46.0302	Electrician	Architecture & Construction	2.20000	Construction Pathway
47-213x	Glazier	6.9	46.0406	Glazier (New)	Architecture & Construction	2.20000	Construction Pathway
47-2141	Insulation worker	5.7	46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-2141	Painter, construction and maintenance	7.7	46.0408	Painting/Painter & Wall Coverer	Architecture & Construction	2.20000	Construction Pathway
47-2142	Paperhanger	13.1	46.0408	Painting/Painter & Wall Coverer	Architecture & Construction	2.20000	Construction Pathway
47-215x	Pipelayer, plumber, pipefitter, and steamfitter	1.8	46.0502	Pipefitting/Pipefitter & Sprinkler Fitter (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0599	Plumbing and Related Water Supply Services, Other	Architecture & Construction	2.20000	Construction Pathway
47-2161	Plasterer and stucco mason	2.0	46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-2181	Roofer	1.1	46.0410	Roofer (New)	Architecture & Construction	2.20000	Construction Pathway
47-2211	Sheet metal worker	3.1	48.0506	Sheet Metal Technology/Sheetworking	Architecture & Construction	13.10000	Precision Metal Production Pathway
47-2221	Structural iron and and steel worker	2.2	46.0411	Metal Building Assembly/Assembler (New)	Architecture & Construction	2.20000	Construction Pathway
			46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-301x	Helper, construction trade	6.2	46.0101	Masonry/Mason	Architecture & Construction	2.20000	Construction Pathway
			46.0201	Carpentry/Carpenter	Architecture & Construction	2.20000	Construction Pathway
			46.0302	Electrician	Architecture & Construction	2.20000	Construction Pathway
			46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0404	Drywall Installation/Drywaller (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0406	Glazier (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0408	Painting/Painter & Wall Coverer	Architecture & Construction	2.20000	Construction Pathway

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			46.0410	Roofer (New)	Architecture & Construction	2.20000	Construction Pathway
			46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction	2.20000	Construction Pathway
47-4011	Construction and building inspector	8.8	46.0403	Building/Home/Construction Inspection/Inspector	Architecture & Construction	2.20000	Construction Pathway
47-4021	Elevator installer and repairer	1.9	47.0303	Industrial Mechanics & Maintenance Technology	Architecture & Construction	13.30000	Electromechanical Installation and
47-4031	Fence erector	0.8	46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-4031	Hazardous materials worker	4.6	15.0508	Hazardous Materials Management & Waste	Architecture & Construction	13.30000	Electromechanical Installation and
			46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
			47.9999	Mechanic & Repair Technology, Other	Architecture & Construction	16.40000	Facility and Mobile Equipment
47-4051	Highway maintenance worker	3.8	49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Architecture & Construction	2.20000	Construction Pathway
47-4071	Septic tank servicers and sewer pipe cleaners	2.6	46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction	2.20000	Construction Pathway
47-409x	Miscellaneous construction and related worker	7.0	46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction	2.20000	Construction Pathway
			49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Architecture & Construction	2.20000	Construction Pathway
			46.9999	Building/Construction Trades, Other	Architecture & Construction	2.20000	Construction Pathway
47-501x	Derrick, rotary drill, and service unit operators, oil, gas, and min	1.7	46.0504	Well Drilling/Driller (New)	Agriculture & Natural Resources	2.20000	Construction Pathway
			46.0504	Well Drilling/Driller (New)	Agriculture & Natural Resources	2.20000	Construction Pathway
			15.0901	Mining Technology/Technician	Agriculture & Natural Resources	Not reported	
47-5021	Earth drillers, except gas	2.8	46.0504	Well Drilling/Driller (New)	Agriculture & Natural Resources	2.20000	Construction Pathway
			49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Agriculture & Natural Resources	2.20000	Construction Pathway
47-5031	Explosive workers, ordnance handling experts, and blasters	4.0	46.0505	Blasting/Blaster (New)	Agriculture & Natural Resources	2.20000	Construction Pathway
47-504x	Mining machine operators	3.6	49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Agriculture & Natural Resources	2.20000	Construction Pathway
47-5099	Other extraction workers	1.3	49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Agriculture & Natural Resources	2.20000	Construction Pathway
49-1011	First-line supervisor/manager of mechanics, installers and repairers	8.5	52.0205	Operations Management & Supervision	Manufacturing	4.10000	Management Pathway
49-2011	Computer, automated teller, and o machine repair	9.7	47.0102	Business Machine Repair	Information Technology	13.30000	Electromechanical Installation and
			47.0104	Computer Installation & Repair Technology/Technician	Information Technology	13.30000	Electromechanical Installation and
49-202x	Radio and telecommunications equipment installer and repairer	15.2	47.0103	Communications Systems Installation & Repair Technology	Information Technology	13.30000	Electromechanical Installation and
49-2091	Avionics technician	18.6	47.0607	Airframe Mechanics & Aircraft Maintenance Technology/Technician	Manufacturing	16.40000	Facility and Mobile Equipment
			47.0609	Avionics Maintenance & Technology/Technician	Manufacturing	16.40000	Facility and Mobile Equipment
49-2092	Electric motor, power tool, and related repairers	1.8	47.0101	Electrical/Electronics Equipment Installation & Repair, General	Manufacturing	16.40000	Facility and Mobile Equipment
49-2093	Electrical and electronics installers and repairers, transportation	4.3	47.0104	Computer Installation & Repair Technology/Technician	Manufacturing	16.40000	Facility and Mobile Equipment
49-2094/5	Electrical and electronics repairers industrial and utility	0.5	47.0105	Industrial Electronics Technology/Technician	Manufacturing	16.40000	Facility and Mobile Equipment
			47.0604	Automobile/Automotive Mechanics/Technology/Technician	Manufacturing	16.40000	Facility and Mobile Equipment
			99.9990	No related CIP programs	Manufacturing	Not reported	
49-2096	Electronic equipment installers and repairers, motor vehicles	7.1	47.0604	Automobile/Automotive Mechanics/Technology/Technician	Manufacturing	16.40000	Facility and Mobile Equipment
49-2097	Electronic home entertainment & equipment installer & repairer	0.5	47.0103	Communications Systems Installation & Repair Technology	Manufacturing	13.30000	Electromechanical Installation and
49-2098	Security and fire alarm systems installer	2.4	46.0302	Electrician	Architecture & Construction	2.20000	Construction Pathway
			47.0110	Security System Installation, Repair, & Inspection	Architecture & Construction	2.30000	Maintenance/Operations Pathway

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49-3011	Aircraft mechanic and service technician	5.3	47.0607	Airframe Mechanics & Aircraft Maintenance Technology/Technician	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0608	Aircraft Powerplant Technology/Technician	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			1.0205	Agricultural Mechanics & Equipment/Machine Technology (New)	Transportation, Distribution, & Logistics	1.40000	Power Structure and Technical Systems
49-3021	Automotive body and related repairer	0.6	47.0603	Autobody/Collision & Repair Technology & Technician	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
49-3023	Automotive service technician and mechanic	1.6	15.0803	Automotive Engineering Technology/Technician	Transportation, Distribution, & Logistics	Not reported	
			47.0604	Automobile/Automotive Mechanics/Technology/Technician	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0612	Vehicle Emissions Inspection & Maintenance	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0613	Medium/Heavy Vehicle & Truck Technology/Technician (New)	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0614	Alternative Fuel Vehicle Technology/Technician (New)	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
49-3031	Bus and truck mechanic and diesel engine specialist	0.9	47.0605	Diesel Mechanics Technology/Technician	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0613	Medium/Heavy Vehicle & Truck Technology/Technician (New)	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
49-304x	Heavy vehicle and mobile equipment service technician and mechanic	1.4	1.0201	Agricultural Mechanization, General	Transportation, Distribution, & Logistics	1.40000	Power Structure and Technical Systems
			1.0204	Agricultural Power Machinery Operation	Transportation, Distribution, & Logistics	1.40000	Power Structure and Technical Systems
			1.0205	Agricultural Mechanics & Equipment/Machine Technology (New)	Transportation, Distribution, & Logistics	1.40000	Power Structure and Technical Systems
			1.0299	Agricultural Mechanization, Other	Transportation, Distribution, & Logistics	1.40000	Power Structure and Technical Systems
			47.0302	Heavy Equipment Maintenance/Technology/Technician	Transportation, Distribution, & Logistics	2.30000	Maintenance/Operations Pathway
49-305x	Small engine mechanic	3.4	47.0606	Small Engine Mechanics & Repair Technology	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0616	Marine Maintenance/Fitter & Ship Repair Technology (New)	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
			47.0611	Motorcycle Maintenance & Repair Technology/Technician	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment Maintenance
49-309x	Misc vehicle and mobile equipment mechanics, installers	2.0	47.0610	Bicycle Mechanics & Repair	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment
			47.0699	Vehicle Maintenance & Repair Technologies, Other	Transportation, Distribution, & Logistics	16.40000	Facility and Mobile Equipment
			99.9990	No related CIP programs	Transportation, Distribution, & Logistics		
49-901x	Control and valve installers and repairers	2.1	99.9990	No related CIP programs	Manufacturing Architecture & Construction	Not reported	
49-9021	Heating, air conditioning, and refrigeration	2.7	15.0501	Heating, Air Conditioning & Refrigeration Technology/Technician	Architecture & Construction	2.20000	Construction Pathway
			15.0505	Solar Energy Technology/Technician	Manufacturing Architecture & Construction	2.20000	Construction Pathway
			47.0201	Heating, Air Conditioning, Ventilation & Refrigeration Maintenance	Manufacturing Architecture & Construction	2.30000	Maintenance/Operations Pathway
49-9031	Home appliance repairer	1.5	47.0106	Appliance Installation & Repair Technology/Technician	Manufacturing	13.30000	Electromechanical Installation and
49-904x	Industrial and refractory machinery mechanic	3.8	47.0303	Industrial Mechanics & Maintenance Technology	Manufacturing	13.30000	Electromechanical Installation and
			47.0399	Heavy/Industrial Equipment Maintenance Technologies	Manufacturing	13.30000	Electromechanical Installation and
49-9042	Maintenance and repair worker, general	4.0	46.0412	Building/Construction Site Management/Manager	Manufacturing	2.20000	Construction Pathway
49-9043	Maintenance worker, machinery	1.8	47.0399	Heavy/Industrial Equipment Maintenance Technologies	Manufacturing	2.20000	Construction Pathway
			47.0303	Industrial Mechanics & Maintenance Technology	Manufacturing	13.30000	Electromechanical Installation and
49-9044	Millwright	2.9	47.0399	Heavy/Industrial Equipment Maintenance Technologies	Manufacturing	13.30000	Electromechanical Installation and
			46.0301	Electrical & Power Transmission Installation/Installer, General Lineworker	Architecture & Construction	2.20000	Construction Pathway
49-9051	Electrical power-line installer and repairer	0.9	46.0303	Electrical & Power Transmission Installation/Installer, General Lineworker	Architecture & Construction	2.20000	Construction Pathway
			46.0399	Electrical & Power Transmission Installers, Other	Architecture & Construction	2.20000	Construction Pathway
			46.0399	Electrical & Power Transmission Installers, Other	Architecture & Construction	2.20000	Construction Pathway
49-9052	Telecommunications line installer and repairer	8.6	47.0103	Communications Systems Installation & Repair Technology	Arts, A/V Technology & Communication	3.60000	Telecommunications Technologies Pathway
49-906x	Precision instrument and equipment repairer	13.9	15.0401	Biomedical Technology/Technician	Manufacturing	13.30000	Electromechanical Installation and
			15.0404	Instrumentation Technology/Technician	Information Technology	13.40000	Precision Technology Processes Pathway
			15.0499	Electromechanical & Instrumentation & Maintenance	Information Technology	13.30000	Electromechanical Installation and
			47.0103	Communications Systems Installation & Repair Technology	Manufacturing	3.60000	Telecommunications Technologies Pathway
			47.0404	Musical Instrument Fabrication & Repair	Arts, A/V Technology & Communication	13.30000	Electromechanical Installation and
			47.0408	Watchmaking & Jewelmaking	Information Technology	13.30000	Electromechanical Installation and
49-9091	Coin, vending, and amusement machine servicer and repairer	14.3	47.0199	Electrical/Electronics Maintenance & Repair Technology, Other	Arts, A/V Technology & Communication	2.30000	Maintenance/Operations Pathway
49-9094	Locksmiths and safe repairers	7.8	47.0403	Locksmithing & Safe Repair	Manufacturing	13.30000	Electromechanical Installation and

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49-9095	Manufactured building and mobile home installers	3.3	46.0412	Building/Construction Site Management/Manager	Manufacturing	2.20000	Construction Pathway
49-9097	Signal and track switch repairer	14.9	46.0302	Electrician	Architecture & Construction	2.20000	Construction Pathway
49-9098	Helpers-installation, maintenance and repair workers	8.7	47.0303	Industrial Mechanics & Maintenance Technology	Architecture & Construction	13.30000	Electromechanical Installation and
49-9099	Other installation, maintenance and repair workers	6.5	47.0409 47.0499	Parts & Warehousing Operations & Maintenance Precision Systems Maintenance and Repair Technologies, Other	Manufacturing Manufacturing	13.30000 13.30000	Electromechanical Installation and Electromechanical Installation and
51.1011	First-line supervisor/manager of production and operating workers	19.4	52.0205	Operations Management & Supervision	Manufacturing	4.10000	Management Pathway
51-2011	Aircraft structure, surfaces, rigging, and systems assemblers	19.3	47.0607 47.0608 47.0609	Airframe Mechanics & Aircraft Maintenance Technology/Technician Aircraft Powerplant Technology/Technician Avionics Maintenance & Technology/Technician	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics	16.40000 16.40000 16.40000	Facility and Mobile Equipment Facility and Mobile Equipment Facility and Mobile Equipment
51-2031	Engine and other machine assemblers	23.0	47.0302 47.0303 47.0615	Heavy Equipment Maintenance/Technology/Technician Industrial Mechanics & Maintenance Technology Engine Machinist (New)	Manufacturing Manufacturing Manufacturing	2.30000 13.30000 2.30000 13.30000	Maintenance/Operations Pathway Electromechanical Installation and Maintenance/Operations Pathway Electromechanical Installation and
51-2041	Structural metal fabricators and fitters	4.2	48.0503	Machine Shop Technology/Assistant	Manufacturing	13.10000	Precision Metal Production Pathway
51-3091	Food and tobacco roasting, baking, and drying machine operators	10.6	1.0401	Agricultural & Food Products Processing, General	Manufacturing	1.10000	Food Products and Processing Systems
51-401x	Computer control programmers and operators	8.2	48.0503 11.0201 11.0301	Machine Shop Technology/Assistant Computer Programming/Programmer, General Data Processing & Data Processing Technology/Technician	Manufacturing Manufacturing Manufacturing	13.10000 11.40000 11.20000	Precision Metal Production Pathway Programming and Software Development Information Support Services
51-4021	Extruding and drawing machine setters, operators, and tenders, metal	20.5	48.0501	Machine Tool Technology/Machinist	Manufacturing	13.10000	Precision Metal Production Pathway
51-4022	Forging machine setters, operators, and tenders, metal and plastic	6.6	48.0501	Machine Tool Technology/Machinist	Manufacturing	13.10000	Precision Metal Production Pathway
51-4023	Rolling machine setters, operators, and tenders metal and plastic	18.9	48.0501	Machine Tool Technology/Machinist	Manufacturing	13.10000	Precision Metal Production Pathway
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	17.9	48.0501 48.0506	Machine Tool Technology/Machinist Sheet Metal Technology/Sheetworking	Manufacturing Manufacturing	13.10000 13.10000	Precision Metal Production Pathway Precision Metal Production Pathway
51-4032	Drilling and boring machine tool setters, operators, and tenders	18.6	48.0501	Machine Tool Technology/Machinist	Manufacturing	13.10000	Precision Metal Production Pathway
51-4033	Grinding, lapping, polishing, and b machine tool setter, operator, and tender, metal and plastic	5.6	48.0501 48.0503	Machine Tool Technology/Machinist Machine Shop Technology/Assistant	Manufacturing Manufacturing	13.10000 13.10000	Precision Metal Production Pathway Precision Metal Production Pathway
51-4034	Lathe and turning machine tool setters, operators, and tenders	12.9	48.0501	Machine Tool Technology/Machinist	Manufacturing	13.10000	Precision Metal Production Pathway
51-4035	Milling and planing machine setters, operators, and tenders	9.9	48.0501	Machine Tool Technology/Machinist	Manufacturing	13.10000	Precision Metal Production Pathway
51-4041	Machinist	6.7	48.0501 48.0503	Machine Tool Technology/Machinist Machine Shop Technology/Assistant	Manufacturing Manufacturing	13.10000 13.10000	Precision Metal Production Pathway Precision Metal Production Pathway
51-405x	Metal furnace and kiln operators and tenders	6.5	99.9990	No related CIP programs	Manufacturing	Not reported	

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51-406x	Model makers and patternmakers, metal and plastic	13.2	48.0506	Sheet Metal Technology/Sheetworking	Manufacturing	13.10000	Precision Metal Production Pathway
51-407x	Molder and molding machine setter, operator and tender, metal and plastic	17.1	48.0509	Ironworking/Ironworker (New)	Manufacturing	2.20000	Construction Pathway
51-4111	Tool and die maker	0.9	48.0507	Tool & Die Technology/Technician	Manufacturing	13.10000	Precision Metal Production Pathway
51-4120	Welding, soldering, and brazing worker	5.9	48.0508	Welding Technology/Welder	Manufacturing	2.20000	Construction Pathway
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	17.7	48.0501 48.0503	Machine Tool Technology/Machinist Machine Shop Technology/Assistant	Manufacturing Manufacturing	13.10000 13.10000	Precision Metal Production Pathway Precision Metal Production Pathway
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	5.5	99.9990	No related CIP programs	Manufacturing	Not reported	
51-4194	Tool grinders, filers, and sharpeners	5.5	48.0503	Machine Shop Technology/Assistant	Manufacturing	13.10000	Precision Metal Production Pathway
51-5023	Printing machine operator	22.2	10.0302 10.0305 10.0307 10.0399	Printing Management (New) Graphic & Printing Equipment Operator, General Production Printing Press Operator Graphic Communications, Other (New)	Arts, A/V Technology & Communication Arts, A/V Technology & Communication Arts, A/V Technology & Communication Arts, A/V Technology & Communication	3.20000 3.20000 3.20000 3.20000	Printing Technologies Pathway Printing Technologies Pathway Printing Technologies Pathway Printing Technologies Pathway
51-6041	Shoe and leather workers and repairers	10.3	48.0304 48.0399	Shoe, Boot & Leather Repair Leatherworking & Upholstery, Other	Manufacturing Manufacturing	13.10000 13.10000	Precision Metal Production Pathway Precision Metal Production Pathway
51-6061	Textile bleaching and dyeing machine operators and tenders	17.0	99.9990	No related CIP programs	Manufacturing	Not reported	
51-6091	Extruding and forming machine setters, operators, and tenders, synthetics	22.6	99.9990	No related CIP programs	Manufacturing	Not reported	
51.6093	Upholsterer	14.0	48.0303	Upholstery/Upholsterer	Manufacturing	13.10000	Precision Metal Production Pathway
51-7011	Cabinetmaker and bench carpenter	4.4	48.0703	Cabinetmaking & Millwork/Millwright	Manufacturing	13.10000	Precision Metal Production Pathway
51-7041	Sawing machine setter, operator, and tender, wood	10.5	48.0703	Cabinetmaking & Millwork/Millwright	Manufacturing	13.10000	Precision Metal Production Pathway
51-7099	Woodworkers, all other	13.3	48.0701 48.0702 48.0799	Woodworking, General Furniture Design & Manufacturing Woodworking, Other	Manufacturing Manufacturing Manufacturing	13.10000 13.10000 13.10000	Precision Metal Production Pathway Precision Metal Production Pathway Precision Metal Production Pathway
51-801x	Power plant operators, distributors, and dispatchers	9.8	41.0205 99.9990	Nuclear/Nuclear Power Technology/Technician No related CIP programs	Agricultural & Natural Resources	13.30000	Electromechanical Installation and
51-8021	Stationary engineer and boiler operator	2.3	46.0401	Building/property Maintenance and Management	Architecture & Construction	2.20000	Construction Pathway
51-8031	Water and liquid waste treatment and system operator	4.0	15.0506	Water Quality & Wastewater Treatment Management & Recycling	Agriculture/Natural Resource	1.60000	Environmental Service Systems Pathway
51-8099	Miscellaneous plant and system operators	6.9	99.9990	No related CIP programs	Manufacturing	Not reported	
51-9011	Chemical processing machine setter, operator, and tender	13.0	41.0301	Chemical Technology/Technician	Manufacturing	13.20000	Production Design, Operations, and
51-902x	Crushing, grinding, polishing, mixing and blending worker	11.2	99.9990 1.0401	No related CIP programs Agricultural & Food Products Processing, General	Manufacturing Manufacturing	Not reported 1.10000	Food Products and Processing Systems
51-903x	Cutting worker	24.8	99.9990	No related CIP programs	Manufacturing	Not reported	

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51-912x	Painting worker	16.6	99.9990 47.0603 50.0409	No related CIP programs Autobody/Collision & Repair Technology & Technician Graphic Design (New)	Manufacturing Manufacturing Manufacturing	Not reported 16.40000 3.30000	Facility and Mobile Equipment Maintenance Visual Arts Pathway
51-9195	Molders, shapers, and casters, except metal and plastic	12.2	99.9990	No related CIP programs	Manufacturing	Not reported	
51-9197	Tire builder	7.0	99.9990	No related CIP programs	Manufacturing	Not reported	
53-1031	Supervisor, transportation and material moving workers	16.7	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported	
53-201x	Aircraft pilot/flight engineer	2.2	49.0102 49.0108	Airline/Commercial/Professional Pilot & Flight Crew Flight Instructor	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics	16.10000 16.10000	Transportation Operations Pathway Transportation Operations Pathway
53-202x	Air traffic controllers and airfield operations specialists	22.0	49.0105	Air Traffic Controller	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-303x	Driver/sales worker and truck driver	4.5	49.0205	Truck & Bus Driver/Commercial Vehicle Operation	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-3041	Taxi driver and chauffeur	16.0	49.0205	Truck & Bus Driver/Commercial Vehicle Operation	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-401x	Locomotive engineer and operat.	3.2	49.9999 49.0205	Transportation & Materials Moving Services, Other Truck & Bus Driver/Commercial Vehicle Operation	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics	16.10000 16.10000	Transportation Operations Pathway Transportation Operations Pathway
53-4021	Railroad brake, signal, and switch operator	10.1	49.0205	Truck & Bus Driver/Commercial Vehicle Operation	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-4031	Railroad conductor and yardmaster	6.5	49.0205	Truck & Bus Driver/Commercial Vehicle Operation	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-4041	Subway, streetcar, and other rail transportation workers	1.5	49.0205	Truck & Bus Driver/Commercial Vehicle Operation	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-5011	Sailors and marine oilers	3.3	49.0399	Marine Transportation Services, Other	Transportation, Distribution, & Logistics	16.10000	Transportation Operations Pathway
53-502x	Ship and boat captains and operators	0.5	49.0303 49.0309 49.0399	Commercial Fishing Marine Science/Merchant Marine Officer Marine Transportation Services, Other	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics	16.10000 16.10000 16.10000	Transportation Operations Pathway Transportation Operations Pathway Transportation Operations Pathway
53-5031	Ship engineers	3.3	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported	
53-6021	Parking lot attendant	19.5	99.9990	No related CIP programs	Retail & Wholesale Sales & Service	Not reported	
53-6031	Service station attendant	9.8	99.9990	No related CIP programs	Retail & Wholesale Sales & Service	Not reported	
53-6051	Transportation inspector	19.2	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported	
53-6099	Other transportation worker	1.3	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported	
53-7021	Crane and tower operator	1.5	49.0202 49.0206	Construction/Heavy Equipment/Earthmoving Equipment Operation Mobil Crane Operation/Operator (New)	Architecture & Construction Architecture & Construction	2.20000 2.20000	Construction Pathway Construction Pathway
53-703x	Dredge, excavating, and loading machine operator	1.5	49.0202 49.0299	Construction/Heavy Equipment/Earthmoving Equipment Operation Vehicle & Equipment Operators, Other	Architecture & Construction Architecture & Construction	2.20000 2.20000	Construction Pathway Construction Pathway
53-7041	Hoist and winch operator	11.4	49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	Architecture & Construction	2.20000	Construction Pathway
53-7051	Industrial truck and tractor operator	7.2	49.0299	Vehicle & Equipment Operators, Other	Transportation, Distribution, & Logistics	2.20000	Construction Pathway
53-7061	Cleaner of vehicles and equipment	15.0	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported	
53-7062	Laborer and freight, stock, and material mover, handler	16.9	99.9990	No related CIP programs	Transportation, Distribution, & Logistics Arts, A/V Technology & Communication	Not reported	

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53-707x	Pumping station operator	0.3	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	
53-7081	Refuse and recyclable material collector	6.1	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported
53-7199	Material moving workers, all other	9.8	99.9990	No related CIP programs	Transportation, Distribution, & Logistics	Not reported

(a) From USDOL BLS Standard Classification System, available at www.bls.gov/soc/. "x" as last digit denotes entire series.
 (b) From unpublished BLS Table 1. Employed and experienced unemployed persons by detailed occupation, sex, race, and Hispanic or Latino ethnicity, available at http://www.napequity.org/pdf/OI01_2006.pdf.
 (c) File Download from CIP (2000) webpage on Career Clusters website, available at <http://nces.ed.gov/pubs2002/cip2000/index.asp>.
 (d) From CIP/Pathways crosswalk available at <http://edcountability.net>

Crosswalk Process
 (1) Nontraditional occupations (for females, defined as less than 25% women) were identified in Table 1 referenced in footnote (b) above.
 (2) The SOC codes for the NTOs identified in step (1) were found by matching the occupation titles in Table 1 to the titles at www.bls.gov/soc/.
 (3) The CIP codes for the identified SOC codes identified in step (2) were found in the crosswalk file download referenced in footnote (c) above.
 (4) The USDOE Career Cluster and Pathway were identified by using the *Linking the US Dept. of Education's Career Clusters and Career Pathways to the Classification of Instructional Programs, 2000 Edition* available at <http://edcountability.net>

Caveat: This is not a comprehensive list of nontraditional occupations.
 The BLS reports data for certain occupations in very broad categories (e.g., postsecondary teachers). Because such categories are not disaggregated, NAPE can not identify specialities within the categories that might be nontraditional for either gender. Likewise, certain NCES program titles that appear to be nontraditional in nature (e.g., motorcycle maintenance and repair technology) crosswalk to SOC codes that are not reported in the BLS table and, therefore, can not be verified as nontraditional.