

Nontraditional for Females-2004

BLS SOC Code	BLS Occupation Title	Percent Female	NCES CIP Code	NCES Education Program Title	USDOE Career Cluster			
11.1011	Chief executive	23.3	44.0401	Public Administration	Business & Administration Government & Public Administration			
			44.0501	Public Policy Analysis	Business & Administration Government & Public Administration			
			44.9999	Public Administration & Services, Other	Business & Administration Government & Public Administration			
			52.0101	Business/Commerce, General	Business & Administration			
			52.0201	Business Administration/Management	Business & Administration			
			52.0209	Transportation/Transportation Management	Business & Administration			
			52.0701	Entrepreneurship/Entrepreneurial Studies	Business & Administration			
			52.1101	International Business/Trade/Commerce	Business & Administration			
11-3051	Industrial production manager	18.0	52.0101	Business/Commerce, General	Business & Administration			
			52.0201	Business Administration/Management	Manufacturing			
			52.0205	Operations Management & Supervision	Manufacturing			
11-3071	Transportation, storage, and distribution manager	14.9	44.0401	Public Administration	Transportation, Distribution, & Logistics			
			49.0101	Aeronautics/Aviation/Aerospace Science & Aviation/Airway Management & Operations	Transportation, Distribution, & Logistics			
			49.0104	Aviation/Airway Management & Operations	Transportation, Distribution, & Logistics			
			52.0101	Business/Commerce, General	Transportation, Distribution, & Logistics			
			52.0201	Business Administration/Management	Transportation, Distribution, & Logistics			
			52.0203	Logistics & Materials Management	Transportation, Distribution, & Logistics			
11-9011	Farm, ranch and other agricultural manager	20.1	1.0101	Agricultural Business & Management, General	Agriculture/Natural Resource			
			1.0102	Agribusiness/Agricultural Business Operations	Agriculture/Natural Resource			
			1.0104	Farm/Farm & Ranch Management	Agriculture/Natural Resource			
			1.0199	Agricultural Business & Management, Other	Agriculture/Natural Resource			
			1.0301	Agricultural Production Operations, General	Agriculture/Natural Resource			
			1.0302	Animal/Livestock Husbandry & Production	Agriculture/Natural Resource			
			1.0304	Crop Production	Agriculture/Natural Resource			
			1.0306	Dairy Husbandry & Production (New)	Agriculture/Natural Resource			
			1.0307	Horse Husbandry/Equine Science & Agricultural Production Operations, Other	Agriculture/Natural Resource			
			1.0399	Agricultural Production Operations, Other	Agriculture/Natural Resource			
			1.0603	Ornamental Horticulture	Agriculture/Natural Resource			
			1.0604	Greenhouse Operations & Management	Agriculture/Natural Resource			
			1.0606	Plant Nursery Operations & Management	Agriculture/Natural Resource			
			1.0901	Animal Sciences, General	Agriculture/Natural Resource			
			1.0902	Agricultural Animal Breeding	Agriculture/Natural Resource			
			1.0904	Animal Nutrition	Agriculture/Natural Resource			
			1.0905	Dairy Science	Agriculture/Natural Resource			
			1.0906	Livestock Management (New)	Agriculture/Natural Resource			
			1.0907	Poultry Science (New)	Agriculture/Natural Resource			
			1.1101	Plant Sciences, General	Agriculture/Natural Resource			
			1.1102	Agronomy & Crop Science	Agriculture/Natural Resource			
			1.1103	Horticultural Science	Agriculture/Natural Resource			
			1.1105	Plant Protection & Integrated Pest Management	Agriculture/Natural Resource			
			1.1106	Range Science & Management	Agriculture/Natural Resource			
			11-9021	Construction manager	6.4	15.1001	Construction Engineering	Architecture & Construction
						52.0201	Business Administration/Management	Architecture & Construction
						52.0101	Business/Commerce, General	Architecture & Construction
52.0205	Operations Management & Supervision	Architecture & Construction						
11-9041	Engineering manager	5.9	4.0201	Architecture (BArch, BA/BS, MArch, MA/MS, City/Urban, Community & Regional Planning	Scientific Research/Engineering			
			4.0301	City/Urban, Community & Regional Planning	Scientific Research/Engineering			
			4.0401	Environmental Design/Architecture	Scientific Research/Engineering			
			4.0501	Interior Architecture	Scientific Research/Engineering			
			4.0601	Landscape Architecture (BS, BSLA, BLA,	Scientific Research/Engineering			
			14.0101	Engineering, General	Scientific Research/Engineering			
			14.0201	Aerospace, Aeronautical & Astronautical	Scientific Research/Engineering			
			14.0301	Agricultural/Biological Engineering & Architectural Engineering	Scientific Research/Engineering			
			14.0401	Architectural Engineering	Scientific Research/Engineering			
			14.0501	Biomedical/Medical Engineering	Scientific Research/Engineering			
			14.0601	Ceramic Sciences & Engineering	Scientific Research/Engineering			
			14.0701	Chemical Engineering	Scientific Research/Engineering			
			14.0801	Civil Engineering, General	Scientific Research/Engineering			
			14.0802	Geotechnical Engineering	Scientific Research/Engineering			
			14.0803	Structural Engineering	Scientific Research/Engineering			
			14.0804	Transportation & Highway Engineering	Scientific Research/Engineering			
			14.0805	Water Resources Engineering	Scientific Research/Engineering			
			14.0899	Civil Engineering, Other	Scientific Research/Engineering			
			14.0901	Computer Engineering, General	Scientific Research/Engineering			
			14.0902	Computer Hardware Engineering (New)	Scientific Research/Engineering			
14.0903	Computer Software Engineering (New)	Scientific Research/Engineering						

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			14.0999	Computer Engineering, Other (New)	Scientific Research/Engineering
			14.1001	Electrical, Electronics & Communications	Scientific Research/Engineering
			14.1101	Engineering Mechanics	Scientific Research/Engineering
			14.1201	Engineering Physics	Scientific Research/Engineering
			14.1301	Engineering Science	Scientific Research/Engineering
			14.1401	Environmental/Environmental Health	Scientific Research/Engineering
			14.1801	Materials Engineering	Scientific Research/Engineering
			14.1901	Mechanical Engineering	Scientific Research/Engineering
			14.2001	Metallurgical Engineering	Scientific Research/Engineering
			14.2101	Mining & Mineral Engineering	Scientific Research/Engineering
			14.2201	Naval Architecture & Marine Engineering	Scientific Research/Engineering
			14.2301	Nuclear Engineering	Scientific Research/Engineering
			14.2401	Ocean Engineering	Scientific Research/Engineering
			14.2501	Petroleum Engineering	Scientific Research/Engineering
			14.2701	Systems Engineering	Scientific Research/Engineering
			14.2801	Textile Sciences & Engineering	Scientific Research/Engineering
			14.3101	Materials Science	Scientific Research/Engineering
			14.3201	Polymer/Plastics Engineering	Scientific Research/Engineering
			14.3301	Construction Engineering (New)	Scientific Research/Engineering
			14.3401	Forest Engineering (New)	Scientific Research/Engineering
			14.3501	Industrial Engineering (New)	Scientific Research/Engineering
			14.3601	Manufacturing Engineering (New)	Scientific Research/Engineering
			14.3801	Surveying Engineering (New)	Scientific Research/Engineering
			14.3901	Geological/Geophysical Engineering (New)	Scientific Research/Engineering
			14.9999	Engineering, Other	Scientific Research/Engineering
13-1051	Cost estimator	17.7	14.1801	Materials Engineering	Architecture & Construction
			14.1901	Mechanical Engineering	Architecture & Construction
			14.3301	Construction Engineering (New)	Architecture & Construction
			14.3601	Manufacturing Engineering (New)	Architecture & Construction
			15.1001	Construction Engineering	Architecture & Construction
			52.0101	Business/Commerce, General (New)	Architecture & Construction
			52.0201	Business Administration/Management	Architecture & Construction
15-1071	Network and computer systems administrator	20.3	11.0101	Computer & Information Sciences, General	Information Technology
			11.0401	Information Science/Studies	Information Technology
			11.0501	Computer Systems Analysis/Analyst	Information Technology
			11.0901	Computer Systems Networking &	Information Technology
			11.1001	System Administration/Administrator (New)	Information Technology
			11.1002	System, Networking, & LAN/WAN	Information Technology
			11.1003	Computer & Information Systems Security	Information Technology
			11.9999	Computer & Information Sciences & Support	Information Technology
			11.1003	Computer & Information Systems Security	Information Technology
15-1081	Network systems and data communications analyst	21.9	11.0101	Computer & Information Sciences, General	Information Technology
			11.0103	Information Technology (New)	Information Technology
			11.0501	Computer Systems Analysis/Analyst	Information Technology
			11.0901	Computer Systems Networking &	Information Technology
			11.1003	Computer & Information Systems Security	Information Technology
17-1011	Architects, except naval	24.0	4.0201	Architecture (BArch, BA/BS, MArch, MA/MS,	Architecture & Construction
			4.0401	Environmental Design/Architecture	Architecture & Construction
			4.0801	Architectural History & Criticism (New)	Architecture & Construction
			4.9999	Architecture & Related Programs, Other	Architecture & Construction
17-2011	Aerospace engineer	11.3	14.0201	Aerospace, Aeronautical & Astronautical	Scientific Research/Engineering
17-2041	Chemical engineer	15.8	14.0701	Chemical Engineering	Scientific Research/Engineering
17-2051	Civil engineer	11.7	14.0801	Civil Engineering, General	Scientific Research/Engineering
			14.0804	Transportation & Highway Engineering	Scientific Research/Engineering
			14.0805	Water Resources Engineering	Scientific Research/Engineering
			14.0899	Civil Engineering, Other	Scientific Research/Engineering
17-2061	Computer hardware engineer	12.7	14.0901	Computer Engineering, General	Information Technology
			14.0902	Computer Hardware Engineering (New)	Information Technology
17-2071,2	Electrical and electronics engineer	7.9	14.1001	Electrical, Electronics & Communications	Scientific Research/Engineering
17-2110	Industrial engineer, including health and safety	18.8	14.1401	Environmental/Environmental Health	Scientific Research/Engineering
			14.3501	Industrial Engineering (New)	Scientific Research/Engineering
17-2141	Mechanical engineer	5.8	14.1901	Mechanical Engineering	Scientific Research/Engineering
17-3011,2,3,9	Drafter	23.7	4.0901	Architectural Technology/Technician (New)	Architecture & Construction
			15.1301	Drafting & Design Technology/Technician,	Architecture & Construction

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			15.1302	CAD/CADD Drafting &/or Design	Architecture & Construction
			15.1303	Architectural Drafting & Architectural	Architecture & Construction
			15.1304	Civil Drafting & Civil Engineering CAD/CADD	Architecture & Construction
			15.1305	Electrical/Electronics Drafting &	Architecture & Construction
			15.1306	Mechanical Drafting & Mechanical Drafting	Architecture & Construction
			15.1399	Drafting/Design Engineering	Architecture & Construction
17-3021,2,3,6,7,9	Engineering technician, except drafter	19.7	15.0101	Architectural Engineering	Manufacturing
			15.0201	Civil Engineering Technology/Technician	Manufacturing
			15.0303	Electrical, Electronic & Communications	Manufacturing
			15.0304	Laser & Optical Technology/Technician	Manufacturing
			15.0305	Telecommunications Technology/Technician	Manufacturing
			15.0399	Electrical & Electronic Engineering	Manufacturing
			15.0503	Energy Management & Systems	Manufacturing
			15.0505	Solar Energy Technology/Technician	Manufacturing
			15.0507	Environmental Engineering	Agriculture/Natural Resource
			15.0599	Environmental Control	Manufacturing
			15.0607	Plastics Engineering Technology/Technician	Manufacturing
			15.0611	Metallurgical Technology/Technician	Manufacturing
			15.0612	Industrial Technology/Technicians	Manufacturing
			15.0613	Manufacturing Technology/Technician (New)	Manufacturing
			15.0699	Industrial Production	Manufacturing
			15.0704	Hazardous Materials Information Systems	Agriculture/Natural Resource
			15.0801	Aeronautical/Aerospace Engineering	Transportation, Distribution, & Logistics
			15.0805	Mechanical Engineering/Mechanical	Manufacturing
			15.0899	Mechanical Engineering Related	Manufacturing
			15.0901	Mining Technology/Technician	Manufacturing
			15.0999	Mining & Petroleum Technologies/Technicians,	Manufacturing
			15.1001	Construction Engineering	Manufacturing
			15.1103	Hydraulics & Fluid Power	Manufacturing
			15.1202	Computer Technology/Computer Systems	Manufacturing
			15.1501	Industrial Management (New)	Manufacturing
			15.9999	Engineering Related	Manufacturing
17-3030	Surveying and mapping technician	12.2	15.1102	Surveying Technology/Surveying	Scientific Research/Engineering
			45.0702	Cartography	Scientific Research/Engineering
21-2011	Clergy	15.0	39.0601	Theology/Theological Studies	Human Service
			39.0602	Divinity/Ministry (BD, MDiv.)	Human Service
			39.0605	Rabbinical Studies (M.H.L./Rav)	Human Service
			39.0604	Pre-Theology/Pre-Ministerial Studies	Human Service
			39.0699	Theological & ministerial Studies, Other	Human Service
			39.0701	Pastoral Studies/Counseling	Human Service
			39.0702	Youth Ministry (New)	Human Service
			39.0799	Pastoral Counseling & Specialized Ministries,	Human Service
			39.9999	Theological Studies & Religious Vocations,	Human Service
			51.1506	Clinical Pastoral Counseling/Patient	Human Service
27-3011	Announcer	21.6	1.0802	Agricultural Communications/Journalism	Arts, A/V Technology & Communication
			9.0402	Broadcast Journalism	Arts, A/V Technology & Communication
27-4011/2	Broadcast and sound engineering technician and radio operator	12.1	9.0701	Radio & Television	Arts, A/V Technology & Communication
			10.0105	Communications Technology/Technician	Arts, A/V Technology & Communication
			10.0201	Photographic & Film/Video	Arts, A/V Technology & Communication
			10.0202	Radio & Television Broadcasting	Arts, A/V Technology & Communication
			10.0203	Recording Arts Technology/Technician (New)	Arts, A/V Technology & Communication
			10.0299	Audiovisual Communications	Arts, A/V Technology & Communication
			47.0103	Communications Systems Installation & Repair	Law & Public Safety
29-1011	Chiropractor	22.7	51.0101	Chiropractic (DC)	Health Science
29-1021,2,3,4,9	Dentist	22.0	51.0401	Dentistry (DDS, DMD)	Health Science
			51.0501	Dental Clinical Sciences, General (MS, PhD)	Health Science
			51.0502	Advanced General Dentistry (Cert, MS, PhD)	Health Science
			51.0503	Oral Biology & Pathology (MS, PhD) (New)	Health Science
			51.0504	Dental Public Health & Education (Cert,	Health Science
			51.0505	Dental Materials (MS, PhD) (New)	Health Science
			51.0506	Endodontics/Endodontology (Cert, MS, PhD)	Health Science
			51.0507	Oral/Maxillofacial Surgery (Cert, MS, PhD)	Health Science
			51.0508	Orthodontics/Orthodontology (Cert, MS, PhD)	Health Science
			51.0509	Pediatric Dentistry/Pedodontics (Cert, MS,	Health Science
			51.0510	Periodontics/Periodontology (Cert, MS, PhD)	Health Science
			51.0511	Prosthodontics/Prosthodontology (Cert, MS,	Health Science
			51.0599	Advanced/Graduate Dentistry & Oral Sciences,	Health Science
			60.0101	Dental/Oral Surgery Specialty	Health Science
			60.0102	Dental Public Health Specialty	Health Science
			60.0103	Endodontics Specialty	Health Science
			60.0104	Oral Pathology Specialty	Health Science

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			60.0105	Orthodontics Specialty	Health Science
			60.0106	Pedodontics Specialty	Health Science
			60.0107	Periodontics Specialty	Health Science
			60.0108	Prosthodontics Specialty	Health Science
			60.0199	Dental Residency Program, Other	Health Science
33-1012	Front-line supervisor/mgr of police and detectives	21.2	43.0102	Corrections	Law & Public Safety
			43.0103	Criminal Justice/Law Enforcement	Law & Public Safety
			43.0104	Criminal Justice/Safety Studies	Law & Public Safety
33-2011	Fire fighter	5.1	43.0203	Fire Science/Firefighting	Law & Public Safety
			43.0299	Fire Protection, Other	Law & Public Safety
33-3021	Detective and criminal investigator	20.2	43.0107	Criminal Justice/Police Science	Law & Public Safety
			43.0111	Criminalistics & Criminal Science (New)	Law & Public Safety
33-3051	Police and sheriff's patrol officer	13.3	43.0107	Criminal Justice/Police Science	Law & Public Safety
			43.0111	Criminalistics & Criminal Science (New)	Law & Public Safety
33-9031	Security guards and gaming surveillance officers	22.6	99.9990	No related CIP programs	Law & Public Safety
			43.0109	Security & Loss Prevention Services	Law & Public Safety
			43.0112	Securities Services	Law & Public Safety
35-1011	Chefs and head cooks	18.9	12.0503	Culinary Arts/Chef Training	Hospitality & Tourism
35-9021	Dishwashers	23.8	12.0505	Food Preparation/Professional Cooking/Kitchen	Hospitality & Tourism
37-1012	First-line supervisor/manager of landscaping, lawn service, and groundskeeping workers	8.1	1.0603	Ornamental Horticulture	Agriculture/Natural Resource
			1.0605	Landscaping & Groundskeeping	Agriculture/Natural Resource
			1.0607	Turf & Turfgrass Management	Agriculture/Natural Resource
37-2020	Pest control workers	7.1	1.0105	Agricultural/Farm Supplies Retailing &	Agriculture/Natural Resource
37-3011,2,3,9	Grounds maintenance workers	7.1	1.0601	Applied Horticulture/Horticultural Operations, Landscaping & Groundskeeping	Agriculture/Natural Resource
			1.0605	Landscaping & Groundskeeping	Agriculture/Natural Resource
			1.0606	Plant Nursery Operations & Management	Agriculture/Natural Resource
			1.0607	Turf & Turfgrass Management	Agriculture/Natural Resource
			1.0699	Horticultural Service Operations, Other	Agriculture/Natural Resource
39-5011	Barber	18.4	12.0402	Barbering/Barber	Retail & Wholesale Sales & Service
39-6011	Baggage porters, bellhops, concierges	17.5	99.9990	No related CIP programs	Hospitality & Tourism
41-2022	Parts salesperson	12.4	52.1804	Selling Skills & Sales Operations	Retail & Wholesale Sales & Service
			52.1907	Vehicle Parts & Accessories Marketing	Retail & Wholesale Sales & Service
43-5020	Courier and messenger	14.8	99.9990	No related CIP programs	Business & Administration
45-1011	First-line supervisor/manager of farming, fishing	11.3	1.0104	Farm/Farm & Ranch Management	Agriculture/Natural Resource
			1.0199	Agricultural Business & Management, Other	Agriculture/Natural Resource
			1.0301	Agricultural Production Operations, General	Agriculture/Natural Resource
			1.0302	Animal/Livestock Husbandry & Production	Agriculture/Natural Resource
			1.0303	Aquaculture	Agriculture/Natural Resource
			1.0304	Crop Production	Agriculture/Natural Resource
			1.0306	Dairy Husbandry & Production (New)	Agriculture/Natural Resource
			1.0307	Horse Husbandry/Equine Science &	Agriculture/Natural Resource
			1.0399	Agricultural Production Operations, Other	Agriculture/Natural Resource
			1.0901	Animal Sciences, General	Agriculture/Natural Resource
			1.0902	Agricultural Animal Breeding	Agriculture/Natural Resource
			1.0904	Animal Nutrition	Agriculture/Natural Resource
			1.0905	Dairy Science	Agriculture/Natural Resource
			1.0906	Livestock Management (New)	Agriculture/Natural Resource
			1.0907	Poultry Science (New)	Agriculture/Natural Resource
			1.1101	Plant Sciences, General	Agriculture/Natural Resource
			1.1102	Agronomy & Crop Science	Agriculture/Natural Resource
			1.1106	Range Science & Management	Agriculture/Natural Resource
			1.9999	Agriculture, Agricultural Operations, & Related	Agriculture/Natural Resource
			3.0301	Fishing & Fisheries Sciences & Management	Agriculture/Natural Resource
45-4020	Logging worker	2.9	3.0510	Forest Resources Production & Management	Agriculture/Natural Resource
47-1010	First-line supervisor/manager of construction trade	2.2	46.0101	Masonry/Mason	Architecture & Construction
			46.0201	Carpentry/Carpenter	Architecture & Construction
			46.0301	Electrical & Power Transmission	Architecture & Construction
			46.0302	Electrician	Architecture & Construction
			46.0303	Lineworker	Architecture & Construction

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			46.0399	Electrical & Power Transmission Installers,	Architecture & Construction
			46.0401	Building/property Maintenance and	Architecture & Construction
			46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction
			46.0403	Building/Home/Construction	Architecture & Construction
			46.0404	Drywall Installation/Drywaller (New)	Architecture & Construction
			46.0406	Glazier (New)	Architecture & Construction
			46.0408	Painting/Painter & Wall Coverer	Architecture & Construction
			46.0410	Roofer (New)	Architecture & Construction
			46.0412	Building/Construction Site	Architecture & Construction
			46.0499	Building/Construction Finishing, Management,	Architecture & Construction
			46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction
			46.0504	Well Drilling/Driller (New)	Architecture & Construction
			46.0505	Blasting/Blaster (New)	Architecture & Construction
			46.9999	Building/Construction Trades, Other	Agriculture/Natural Resource
47-2021,2	Brickmason, blockmason, and stonemason	0.9	46.0101	Masonry/Mason	Architecture & Construction
47-2031	Carpenter	1.8	46.0201	Carpentry/Carpenter	Architecture & Construction
47-2041,2,3,4	Carpet, floor, and tile installer and finisher	1.9	46.9999	Building/Construction Trades, Other	Architecture & Construction
			46.0101	Masonry/Mason	Architecture & Construction
47-2051,3	Cement mason, concrete finisher, and terrazzo worker	0.2	46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction
			46.0499	Building/property Maintenance and	Architecture & Construction
			46.0499	Building/Construction Finishing, Management,	Architecture & Construction
47-2061	Construction laborer	3.2	46.9999	Building/Construction Trades, Other	Architecture & Construction
47-2071	Operating engineer and other construction equipment operator	1.0	49.0202	Construction/Heavy Equipment/Earthmoving	Architecture & Construction
			49.0206	Mobil Crane Operation/Operator (New)	Architecture & Construction
47-2081,2	Drywall installer, ceiling tile installer and taper	1.1	46.0404	Drywall Installation/Drywaller (New)	Architecture & Construction
			46.9999	Building/Construction Trades, Other	Architecture & Construction
47-2110	Electrician	2.1	46.0302	Electrician	Architecture & Construction
47-2141	Painter, construction and maintenance	5.8	46.0408	Painting/Painter & Wall Coverer	Architecture & Construction
47-2151,2	Pipelayer, plumber, pipefitter, and steamfitter	0.9	46.0502	Pipefitting/Pipefitter & Sprinkler Fitter (New)	Architecture & Construction
			46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction
			46.0599	Plumbing and Related Water Supply Services,	Architecture & Construction
47-2180	Roofer	1.3	46.0410	Roofer (New)	Architecture & Construction
47-2210	Sheet metal worker	4.0	48.0506	Sheet Metal Technology/Sheetworking	Architecture & Construction
47-2220	Structural iron and and steel worker	0.8	46.0411	Metal Building Assembly/Assembler (New)	Architecture & Construction
			46.9999	Building/Construction Trades, Other	Architecture & Construction
47-3011,2,3,4,5,6	Helper, construction trade	5.3	46.0101	Masonry/Mason	Architecture & Construction
			46.0201	Carpentry/Carpenter	Architecture & Construction
			46.0302	Electrician	Architecture & Construction
			46.0402	Concrete Finishing/Concrete Finisher (New)	Architecture & Construction
			46.0404	Drywall Installation/Drywaller (New)	Architecture & Construction
			46.0406	Glazier (New)	Architecture & Construction
			46.0408	Painting/Painter & Wall Coverer	Architecture & Construction
			46.0410	Roofer (New)	Architecture & Construction
			46.0503	Plumbing Technology/Plumber (New)	Architecture & Construction
47-4011	Construction and building inspector	12.4	46.0403	Building/Home/Construction	Architecture & Construction
47-4051	Highway maintenance worker	2.7	49.0202	Construction/Heavy Equipment/Earthmoving	Architecture & Construction
49-1011	First-line supervisor/manager of mechanics, installers and repairers	7.1	52.0205	Operations Management & Supervision	Manufacturing
49-2011	Computer, automated teller, and machine repair	12.0	47.0102	Business Machine Repair	Information Technology
			47.0104	Computer Installation & Repair	Information Technology
49-2021,2	Radio and telecommunications equipment installer and repairer	13.6	47.0103	Communications Systems Installation & Repair	Information Technology
49-2092	Electric motor, power tool, and	3.2	47.0101	Electrical/Electronics Equipment Installation &	Manufacturing

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	related repair				
49-2098	Security and fire alarm systems installer	3.9	46.0302 47.0110	Electrician Security System Installation, Repair, &	Architecture & Construction Architecture & Construction
49-3011	Aircraft mechanic and service technician	3.4	47.0607 47.0608 1.0205	Airframe Mechanics & Aircraft Maintenance Aircraft Powerplant Technology/Technician Agricultural Mechanics & Equipment/Machine	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics
49-3021	Automotive body and related repairer	2.4	47.0603	Autobody/Collision & Repair Technology &	Transportation, Distribution, & Logistics
49-3023	Automotive service technician and mechanic	1.3	15.0803 47.0604 47.0612 47.0613 47.0614	Automotive Engineering Automobile/Automotive Vehicle Emissions Inspection & Maintenance Medium/Heavy Vehicle & Truck Alternative Fuel Vehicle Technology/Technician	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics
49-3031	Bus and truck mechanic and diesel engine specialist	0.6	47.0605 47.0613	Diesel Mechanics Technology/Technician Medium/Heavy Vehicle & Truck	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics
49-3041,2,3	Heavy vehicle and mobile equipment service technician and mechanic	0.3	1.0201 1.0204 1.0205 1.0299 47.0302	Agricultural Mechanization, General Agricultural Power Machinery Operation Agricultural Mechanics & Equipment/Machine Agricultural Mechanization, Other Heavy Equipment	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics
49-3051,2,3	Small engine mechanic	0.7	47.0606 47.0616 47.0611	Small Engine Mechanics & Repair Technology Marine Maintenance/Fitter & Ship Repair Motorcycle Maintenance & Repair	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics
49-9021	Heating, air conditioning, and refrigeration	1.5	15.0501 15.0505 47.0201	Heating, Air Conditioning & Refrigeration Solar Energy Technology/Technician Heating, Air Conditioning, Ventilation &	Architecture & Construction Manufacturing Architecture & Construction Manufacturing Architecture & Construction Manufacturing
49-9041	Industrial and refractory machinery mechanic	3.7	47.0303 47.0399	Industrial Mechanics & Maintenance Heavy/Industrial Equipment Maintenance	Manufacturing Manufacturing
49-9042	Maintenance and repair worker, general	4.1	46.0412	Building/Construction Site	Manufacturing
49-9044	Millwright	3.1	47.0303 47.0399	Industrial Mechanics & Maintenance Heavy/Industrial Equipment Maintenance	Manufacturing Manufacturing
49-9051	Electrical power-line installer and repairer	1.1	46.0301 46.0303 46.0399	Electrical & Power Transmission Lineworker Electrical & Power Transmission Installers,	Architecture & Construction Architecture & Construction Architecture & Construction
49-9052	Telecommunications line installer and repairer	4.8	47.0103	Communications Systems Installation & Repair	Arts, A/V Technology & Communication
49-9061,2,3,4,9	Precision instrument and equipment repairer	20.0	15.0401 15.0404 15.0499 47.0103 47.0404 47.0408	Biomedical Technology/Technician Instrumentation Technology/Technician Electromechanical & Instrumentation & Communications Systems Installation & Repair Musical Instrument Fabrication & Repair Watchmaking & Jewelmaking	Manufacturing Information Technology Information Technology Manufacturing Arts, A/V Technology & Communication Information Technology
49-9091	Coin, vending, and amusement machine servicer and repairer	16.5	47.0199	Electrical/Electronics Maintenance & Repair	Arts, A/V Technology & Communication
51.1011	First-line supervisor/manager of production and operating workers	20.1	52.0205	Operations Management & Supervision	Manufacturing
51.3021,2,3	Butcher and other meat, poultry, & fish processing worker	19.6	12.0506	Meat Cutting/Meat Cutter	Retail & Wholesale Sales & Service
51-4033	Grinding, lapping, polishing, and machine tool setter, operator, and tender, metal and plastic	11.0	48.0501 48.0503	Machine Tool Technology/Machinist Machine Shop Technology/Assistant	Manufacturing Manufacturing
51-4040	Machinist	4.4	48.0501 48.0503	Machine Tool Technology/Machinist Machine Shop Technology/Assistant	Manufacturing Manufacturing

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BLS SOC Code	BLS Occupation Title	Percent Female	NCES CIP Code	NCES Education Program Title	USDOE Career Cluster
51-4070	Molder and molding machine setter, operator and tender, metal and plastic	24.9	48.0509	Ironworking/Ironworker (New)	Manufacturing
51-4111	Tool and die maker	3.0	48.0507	Tool & Die Technology/Technician	Manufacturing
51-4120	Welding, soldering, and brazing worker	5.0	48.0508	Welding Technology/Welder	Manufacturing
51-5021	Job printer	21.2	10.0302 10.0305	Printing Management (New) Graphic & Printing Equipment Operator,	Arts, A/V Technology & Communication Arts, A/V Technology & Communication
51-5023	Printing machine operator	19.3	10.0302 10.0305 10.0307 10.0399	Printing Management (New) Graphic & Printing Equipment Operator, 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
51-7011	Cabinetmaker and bench carpenter	4.4	48.0703	Cabinetmaking & Millwork/Millwright	Manufacturing
51-8021	Stationary engineer and boiler operator	1.0	46.0401	Building/property Maintenance and	Architecture & Construction
51-8031	Water and liquid waste treatment and system operator	6.1	15.0506	Water Quality & Wastewater Treatment	Agriculture/Natural Resource
51-9011	Chemical processing machine setter, operator, and tender	14.0	41.0301	Chemical Technology/Technician	Manufacturing
51-9021,2,3	Crushing, grinding, polishing, mixing and blending worker	20.1	99.9990 1.0401	No related CIP programs Agricultural & Food Products Processing,	Manufacturing Manufacturing
51-9121	Painting worker	13.1	99.9990 47.0603 50.0409	No related CIP programs Autobody/Collision & Repair Technology & Graphic Design (New)	Manufacturing Manufacturing Manufacturing
51-9196	Paper goods machine setter, operator, and tender	19.3	99.9990	No related CIP programs	Manufacturing
51-9198	Helper-production worker	21.1	99.9990	No related CIP programs	Manufacturing
53-1031	Supervisor, transportation and material moving workers	17.8	99.9990	No related CIP programs	Transportation, Distribution, & Logistics
53-2011	Aircraft pilot flight engineer	5.3	49.0102 49.0108	Airline/Commercial/Professional Pilot & Flight Flight Instructor	Transportation, Distribution, & Logistics Transportation, Distribution, & Logistics
53-3031	Driver/sales worker and truck driver	4.5	52.1803 49.0205	Retailing & Retail Operations Truck & Bus Driver/Commercial Vehicle	Retail & Wholesale Sales & Service Transportation, Distribution, & Logistics
53-3040	Taxi driver and chauffeur	12.9	49.0205	Truck & Bus Driver/Commercial Vehicle	Transportation, Distribution, & Logistics
53-4031	Railroad conductor and yardmaster	7.8	49.0205	Truck & Bus Driver/Commercial Vehicle	Transportation, Distribution, & Logistics
53-6021	Parking lot attendant	13.3	99.9990	No related CIP programs	Retail & Wholesale Sales & Service
53-6031	Service station attendant	8.7	99.9990	No related CIP programs	Retail & Wholesale Sales & Service
53-7021	Crane and tower operator	4.0	49.0202 49.0206	Construction/Heavy Equipment/Earthmoving Mobil Crane Operation/Operator (New)	Architecture & Construction Architecture & Construction
53-7031,2,3	Dredge, excavating, and loading machine operator	0.1	49.0202 49.0299	Construction/Heavy Equipment/Earthmoving Vehicle & Equipment Operators, Other	Architecture & Construction Architecture & Construction Agriculture/Natural Resource
53-7051	Industrial truck and tractor operator	7.5	49.0299	Vehicle & Equipment Operators, Other	Transportation, Distribution, & Logistics
53-7061	Cleaner of vehicles and equipment	11.9	99.9990	No related CIP programs	Transportation, Distribution, & Logistics
53-7062	Laborer and freight, stock, and material mover, handler	16.2	99.9990	No related CIP programs	Transportation, Distribution, & Logistics Arts, A/V Technology & Communication
53-7080	Refuse and recyclable material collector	8.2	99.9990	No related CIP programs	Transportation, Distribution, & Logistics

Nontraditional for Females-2004

BLS		Percent	NCES		
SOC Code	BLS Occupation Title	Female	CIP Code	NCES Education Program Title	USDOE Career Cluster

NOTES:

Nontraditional occupations identified from 2004 Bureau of Labor Statistics (BLS) Household Data Annual Averages, Table 11 (www.napequity.org/pdf/cpsaat11.pdf).

BLS Standard Occupations Classification (SOC) codes and titles from www.bls.gov/soc.

Crosswalk of NCES CIP codes to BLS SOC codes and USDOE Career Clusters found at <http://nces.ed.gov/pubs2002/cip2000/index.asp>.