

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			
			52.0203	Transportation/Transportation 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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SOC Code	BLS Occupation Title		CIP Code	NCES Education Program Title	
			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 & Jewelrymaking	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, and 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.

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

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