

51-1011 First-Line Supervisors/Managers of Production and Operating Workers

FA

Supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. *Examples: Laundromat Manager; Station Chief; Assembly Line Supervisor*

Training Category: Related experience

2007 Average Wage:	\$24.70
2006 Estimated Employment:	3,804
2016 Projected Employment:	3,826
Growth Rate, 2006-2016:	0.6%
Annual Openings:	66

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	16.7%	18.0%
334 Computer and Electronic Product Mfg	13.7%	13.1%
333 Machinery Manufacturing	7.5%	7.8%
326 Plastics & Rubber Products Manufacturing	6.9%	6.7%
335 Electrical Equipment and Appliances	4.5%	5.1%
323 Printing and Related Support Activities	3.4%	3.0%

51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers

LS

Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment. *Examples: Aircraft Riveter; Skin Installer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	n	n
336 Transportation Equipment Manufacturing	n	n

51-2021 Coil Winders, Tapers, and Finishers

LS

Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment. *Examples: Coil Builder; Motor Winder; Wire Coiler*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$13.49
2006 Estimated Employment:	292
2016 Projected Employment:	260
Growth Rate, 2006-2016:	-11.0%
Annual Openings:	5

Industry	2006 Share	2016 Share
335 Electrical Equipment and Appliances	77.1%	79.2%
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n

51-2022 Electrical and Electronic Equipment Assemblers

LS

Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries. *Examples: Anode Builder; Battery Builder; Industrial Equipment Wirer*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$13.71
2006 Estimated Employment:	2,630
2016 Projected Employment:	2,218
Growth Rate, 2006-2016:	-15.7%
Annual Openings:	45

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	60.3%	53.8%
335 Electrical Equipment and Appliances	16.3%	17.9%
333 Machinery Manufacturing	3.8%	3.8%
336 Transportation Equipment Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
5613 Employment Services	n	n

51-2023 Electromechanical Equipment Assemblers

FA

Assemble or modify electromechanical equipment or devices, such as servomechanisms, gyros, dynamometers, magnetic drums, tape drives, brakes, control linkage, actuators, and appliances. *Examples: Appliance Assembler; Vending Machine Assembler*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$14.94
2006 Estimated Employment:	828
2016 Projected Employment:	853
Growth Rate, 2006-2016:	3.0%
Annual Openings:	17

Industry	2006 Share	2016 Share
333 Machinery Manufacturing	57.0%	57.8%
334 Computer and Electronic Product Mfg	31.8%	30.0%
335 Electrical Equipment and Appliances	n	n
5613 Employment Services	n	n

51-2031 Engine and Other Machine Assemblers

LF

Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing. *Examples: Machine Builder; Turbine Assembler*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$13.12
2006 Estimated Employment:	100
2016 Projected Employment:	104
Growth Rate, 2006-2016:	4.0%
Annual Openings:	2

Industry	2006 Share	2016 Share
333 Machinery Manufacturing	36.0%	36.5%
335 Electrical Equipment and Appliances	n	n
336 Transportation Equipment Manufacturing	n	n

51-2041 Structural Metal Fabricators and Fitters

VF

Fabricate, lay out, position, align, and fit parts of structural metal products. *Examples: Manufacturing Ornamental Metal Worker; Metal Box Maker; Protector Plate Attacher*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.32
2006 Estimated Employment:	152
2016 Projected Employment:	188
Growth Rate, 2006-2016:	23.7%
Annual Openings:	7

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	79.6%	80.3%
Self-Employed Workers	2.0%	2.1%
238 Specialty Trade Contractors	n	n
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
5413 Architectural and Engineering Services	n	n

51-2091 Fiberglass Laminators and Fabricators

LF

Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.67
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
811 Repair and Maintenance	n	n

51-2092 Team Assemblers

FA

Work as part of a team having responsibility for assembling an entire product or component of a product. Team assemblers can perform all tasks conducted by the team in the assembly process and rotate through all or most of them rather than being assigned to a specific task on a permanent basis.

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.69
2006 Estimated Employment:	4,199
2016 Projected Employment:	4,524
Growth Rate, 2006-2016:	7.7%
Annual Openings:	120

Industry	2006 Share	2016 Share
339 Miscellaneous Manufacturing	14.6%	11.9%
333 Machinery Manufacturing	13.8%	13.7%
332 Fabricated Metal Product Manufacturing	13.7%	14.4%
334 Computer and Electronic Product Mfg	10.7%	9.7%
335 Electrical Equipment and Appliances	8.1%	8.4%
5613 Employment Services	n	n

51-2099 Assemblers and Fabricators, All Other

LS

All assemblers and fabricators not listed separately. *Examples: Barrel Raiser; Automobile Assembler, except engines; Doll Maker*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$12.92
2006 Estimated Employment:	2,100
2016 Projected Employment:	2,023
Growth Rate, 2006-2016:	-3.7%
Annual Openings:	44

Industry	2006 Share	2016 Share
335 Electrical Equipment and Appliances	16.2%	16.4%
334 Computer and Electronic Product Mfg	15.4%	13.8%
339 Miscellaneous Manufacturing	14.2%	11.3%
333 Machinery Manufacturing	9.0%	9.0%
332 Fabricated Metal Product Manufacturing	7.0%	7.4%
5613 Employment Services	n	n

51-3011 Bakers

VF

Mix and bake ingredients according to recipes to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods. *Examples: Cake Maker; Head Baker; Pastry Finisher*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$11.99
2006 Estimated Employment:	490
2016 Projected Employment:	575
Growth Rate, 2006-2016:	17.3%
Annual Openings:	19

Industry	2006 Share	2016 Share
311 Food Manufacturing	24.5%	24.9%
445 Food and Beverage Stores	21.0%	19.8%
722 Food Services and Drinking Places	18.6%	18.4%
721 Accommodation	8.8%	8.5%
424 Merchant Wholesalers, Nondurable Goods	n	n
452 General Merchandise Stores	n	n

51-3021 Butchers and Meat Cutters

FA

Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments. *Examples: Carver; Meat Department Manager; Cleaver*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$16.52
2006 Estimated Employment:	528
2016 Projected Employment:	552
Growth Rate, 2006-2016:	4.5%
Annual Openings:	19

Industry	2006 Share	2016 Share
445 Food and Beverage Stores	87.9%	85.3%
452 General Merchandise Stores	7.6%	9.8%
Self-Employed Workers	1.1%	1.1%
551 Management of Companies and Enterprises	n	n

51-3022 Meat, Poultry, and Fish Cutters and Trimmers

FA

Use hand tools to perform routine cutting and trimming of meat, poultry, and fish. *Examples: Calf Skinner; Eviscerator; Filleter*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$11.56
2006 Estimated Employment:	181
2016 Projected Employment:	213
Growth Rate, 2006-2016:	17.7%
Annual Openings:	9

Industry	2006 Share	2016 Share
311 Food Manufacturing	36.5%	37.1%
445 Food and Beverage Stores	34.8%	32.4%
Self-Employed Workers	1.1%	0.9%
424 Merchant Wholesalers, Nondurable Goods	n	n
452 General Merchandise Stores	n	n

51-3023 Slaughterers and Meat Packers

LS

Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat. Work may include specialized slaughtering tasks, cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats.

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
311 Food Manufacturing	n	n

51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders

FA

Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment. *Examples: Coffee Roaster; Smokehouse Worker*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$11.88
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry		2006 Share	2016 Share
311	Food Manufacturing	n	n
452	General Merchandise Stores	n	n

51-3092 Food Batchmakers

FA

Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Include candy makers and cheese makers. *Examples: Candy Maker; Honey Blender; Peanut Butter Maker*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$16.79
2006 Estimated Employment:	239
2016 Projected Employment:	278
Growth Rate, 2006-2016:	16.3%
Annual Openings:	10

Industry		2006 Share	2016 Share
311	Food Manufacturing	98.3%	98.2%
	Self-Employed Workers	1.7%	1.8%

51-3093 Food Cooking Machine Operators and Tenders

LS

Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products. *Examples: Doughnut Maker; Sausage Cooker; Potato Chip Fryer*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$10.82
2006 Estimated Employment:	144
2016 Projected Employment:	142
Growth Rate, 2006-2016:	-1.4%
Annual Openings:	6

Industry		2006 Share	2016 Share
311	Food Manufacturing	n	n
445	Food and Beverage Stores	n	n
452	General Merchandise Stores	n	n

51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic

FA

Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces. *Examples: Numerical Control Machine Operator; Robot Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.55
2006 Estimated Employment:	812
2016 Projected Employment:	928
Growth Rate, 2006-2016:	14.3%
Annual Openings:	22

Industry		2006 Share	2016 Share
332	Fabricated Metal Product Manufacturing	52.5%	52.5%
326	Plastics & Rubber Products Manufacturing	15.6%	15.5%
331	Primary Metal Manufacturing	9.1%	9.1%
334	Computer and Electronic Product Mfg	5.4%	5.1%
335	Electrical Equipment and Appliances	n	n
336	Transportation Equipment Manufacturing	n	n

51-4012 Numerical Tool and Process Control Programmers

LS

Develop programs to control machining or processing of parts by automatic machine tools, equipment, or systems. *Examples: Tool Programmer; NC Programmer*

Training Category: Related experience

2007 Average Wage:	\$20.14
2006 Estimated Employment:	110
2016 Projected Employment:	120
Growth Rate, 2006-2016:	9.1%
Annual Openings:	2

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	88.2%	87.5%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n

51-4021 Extruding and Drawing Machine Setters, Operators and Tenders, Metal and Plastic

FA

Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes. *Examples: Draw Bench Operator; Tube Drawer; Wire Drawing Setter*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.27
2006 Estimated Employment:	631
2016 Projected Employment:	713
Growth Rate, 2006-2016:	13.0%
Annual Openings:	25

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	32.3%	29.0%
335 Electrical Equipment and Appliances	26.8%	28.2%
331 Primary Metal Manufacturing	26.2%	25.0%
332 Fabricated Metal Product Manufacturing	n	n
5613 Employment Services	n	n

51-4022 Forging Machine Setters, Operators and Tenders, Metal and Plastic

LF

Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts. *Examples: Cold Header Operator; Swager Operator; Drop Hammer Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$12.95
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
5613 Employment Services	n	n

51-4023 Rolling Machine Setters, Operators and Tenders, Metal and Plastic

LF

Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material. *Examples: Forming Roll Operator; Rolling Mill Operator; Tubing Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.64
2006 Estimated Employment:	100
2016 Projected Employment:	107
Growth Rate, 2006-2016:	7.0%
Annual Openings:	3

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	38.0%	35.5%
Self-Employed Workers	3.0%	3.7%
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
337 Furniture and Related Product Mfg	n	n

51-4031 Cutting, Punching, & Press Machine Setters, Operators & Tenders, Metal & Plastic

LS

Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material. *Examples: Perforator Operator; Crimping Machine Operator; Four Slide Machine Setter*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$12.98
2006 Estimated Employment:	1,427
2016 Projected Employment:	1,355
Growth Rate, 2006-2016:	-5.0%
Annual Openings:	34

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	40.8%	42.2%
339 Miscellaneous Manufacturing	20.0%	16.1%
5613 Employment Services	6.8%	10.3%
326 Plastics & Rubber Products Manufacturing	4.3%	4.1%
333 Machinery Manufacturing	3.8%	3.8%
331 Primary Metal Manufacturing	n	n

51-4032 Drilling and Boring Machine Tool Setters, Operators and Tenders, Metal and Plastic

LS

Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces. *Examples: Drill Press Operator; Jewel Cupping Machine Operator; Reaming Press Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.41
2006 Estimated Employment:	252
2016 Projected Employment:	230
Growth Rate, 2006-2016:	-8.7%
Annual Openings:	5

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n
339 Miscellaneous Manufacturing	n	n

51-4033 Grinding, Lapping, Polishing, & Buffing Machine Tool Setters, Ops & Tenders, Metal & Plastic

LS

Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces. *Examples: Barrel Polisher; Jewel Bearing Facer; Metal Filer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.01
2006 Estimated Employment:	561
2016 Projected Employment:	563
Growth Rate, 2006-2016:	0.4%
Annual Openings:	6

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	61.5%	62.2%
331 Primary Metal Manufacturing	14.6%	14.7%
326 Plastics & Rubber Products Manufacturing	4.8%	4.6%
339 Miscellaneous Manufacturing	4.5%	3.4%
333 Machinery Manufacturing	n	n
811 Repair and Maintenance	n	n

51-4034 Lathe and Turning Machine Tool Setters, Operators and Tenders, Metal and Plastic

LS

Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock. *Examples: Gear Cutter; Screw Machine Operator; Threading Machine Setter*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.70
2006 Estimated Employment:	566
2016 Projected Employment:	517
Growth Rate, 2006-2016:	-8.7%
Annual Openings:	11

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	84.1%	83.4%
Self-Employed Workers	2.5%	3.1%
326 Plastics & Rubber Products Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n

51-4035 Milling and Planing Machine Setters, Operators and Tenders, Metal and Plastic

LF

Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces. *Examples: Broaching Machine Operator; Profiler Operator; Scribing Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.76
2006 Estimated Employment:	263
2016 Projected Employment:	246
Growth Rate, 2006-2016:	-6.5%
Annual Openings:	3

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	58.6%	58.5%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
339 Miscellaneous Manufacturing	n	n

51-4041 Machinists

FA

Set up and operate a variety of machine tools to produce precision parts and instruments. Include precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures. *Examples: Electrical Instrument Maker; Machine Fitter*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	\$18.46
2006 Estimated Employment:	2,459
2016 Projected Employment:	2,715
Growth Rate, 2006-2016:	10.4%
Annual Openings:	64

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	44.2%	43.1%
333 Machinery Manufacturing	16.8%	16.4%
334 Computer and Electronic Product Mfg	8.3%	7.7%
326 Plastics & Rubber Products Manufacturing	5.1%	4.7%
331 Primary Metal Manufacturing	n	n
5613 Employment Services	n	n

51-4051 Metal-Refining Furnace Operators and Tenders

LS

Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-hearth, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel. *Examples: Blast Furnace Blower; Bessemer Regulator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.90
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
333 Machinery Manufacturing	n	n

51-4052 Pourers and Casters, Metal

FA

Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots. *Examples: Ingot Header; Ladle Operator; Steel Pourer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.27
2006 Estimated Employment:	56
2016 Projected Employment:	66
Growth Rate, 2006-2016:	17.9%
Annual Openings:	2

Industry	2006 Share	2016 Share
331 Primary Metal Manufacturing	100.0%	100.0%

51-4061 Model Makers, Metal and Plastic

LF

Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects.
Examples: Jig and Fixture Builder; Mandrel Maker; Mock Up Maker

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	n/a
2006 Estimated Employment:	28
2016 Projected Employment:	29
Growth Rate, 2006-2016:	3.6%
Annual Openings:	1

Industry		2006 Share	2016 Share
	Self-Employed Workers	3.6%	6.9%
331	Primary Metal Manufacturing	n	n
332	Fabricated Metal Product Manufacturing	n	n
333	Machinery Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n
335	Electrical Equipment and Appliances	n	n

51-4062 Patternmakers, Metal and Plastic

LS

Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates. *Examples: Pattern Fitter; Stencil Cutter*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry		2006 Share	2016 Share
331	Primary Metal Manufacturing	36.3%	37.8%
	Self-Employed Workers	3.8%	5.6%
332	Fabricated Metal Product Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n

51-4071 Foundry Mold and Coremakers

LF

Make or form wax or sand cores or molds used in the production of metal castings in foundries. *Examples: Core Setter; Mold Closer; Dry Sand Molder*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.72
2006 Estimated Employment:	124
2016 Projected Employment:	130
Growth Rate, 2006-2016:	4.8%
Annual Openings:	4

Industry		2006 Share	2016 Share
331	Primary Metal Manufacturing	n	n
332	Fabricated Metal Product Manufacturing	n	n

51-4072 Molding, Coremaking, & Casting Machine Setters, Ops & Tenders, Metal & Plastic

LS

Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.
Examples: Centrifugal Casting Machine Operator; Injection Molding Machine Setter; Core Moulder

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$14.34
2006 Estimated Employment:	1,520
2016 Projected Employment:	1,467
Growth Rate, 2006-2016:	-3.5%
Annual Openings:	36

Industry		2006 Share	2016 Share
326	Plastics & Rubber Products Manufacturing	48.4%	46.6%
331	Primary Metal Manufacturing	n	n
333	Machinery Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n
339	Miscellaneous Manufacturing	n	n
5613	Employment Services	n	n

51-4081 Multiple Machine Tool Setters, Operators and Tenders, Metal and Plastic

FA

Set up, operate, or tend more than one type of cutting or forming machine tool or robot. *Examples: Machine Tool Operator; Combination Machine Tool Setter; Metal and Plastic Transfer Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$18.48
2006 Estimated Employment:	1,065
2016 Projected Employment:	1,173
Growth Rate, 2006-2016:	10.1%
Annual Openings:	32

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	12.9%	12.5%
333 Machinery Manufacturing	9.6%	10.1%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4111 Tool and Die Makers

LS

Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools. *Examples: Die Sinker; Die Finisher; Sawsmith*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	\$20.34
2006 Estimated Employment:	412
2016 Projected Employment:	442
Growth Rate, 2006-2016:	7.3%
Annual Openings:	9

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	27.4%	26.9%
335 Electrical Equipment and Appliances	14.1%	15.6%
326 Plastics & Rubber Products Manufacturing	13.6%	13.6%
331 Primary Metal Manufacturing	13.4%	13.8%
333 Machinery Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4121 Welders, Cutters, Solderers, and Brazers

VF

Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. *Examples: Acetylene Burner; Arc Welder; Blow Torch Operator*

Training Category: Postsecondary voc. training

2007 Average Wage:	\$17.85
2006 Estimated Employment:	1,050
2016 Projected Employment:	1,249
Growth Rate, 2006-2016:	19.0%
Annual Openings:	42

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	29.1%	30.8%
811 Repair and Maintenance	6.8%	6.4%
Self-Employed Workers	6.3%	6.7%
333 Machinery Manufacturing	5.8%	5.6%
238 Specialty Trade Contractors	n	n
423 Merchant Wholesalers, Durable Goods	n	n

51-4122 Welding, Soldering, and Brazing Machine Setters, Operators and Tenders

VF

Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Include workers who operate laser cutters or laser-beam machines. *Examples: Electron Beam Welder Setter; Laser-Beam Machine Operator; Ultrasonic Welding Machine Operator*

Training Category: Postsecondary voc. training

2007 Average Wage:	\$15.31
2006 Estimated Employment:	537
2016 Projected Employment:	649
Growth Rate, 2006-2016:	20.9%
Annual Openings:	22

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	21.0%	17.6%
332 Fabricated Metal Product Manufacturing	18.1%	19.0%
Self-Employed Workers	6.7%	7.7%
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n

51-4191 Heat Treating Equipment Setters, Operators and Tenders, Metal and Plastic

LF

Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects. *Examples: Metal & Plastic Annealer; Metal & Plastic Temperer; Induction Machine Setter*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$17.06
2006 Estimated Employment:	55
2016 Projected Employment:	55
Growth Rate, 2006-2016:	0.0%
Annual Openings:	1

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	63.6%	63.6%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4192 Lay-Out Workers, Metal and Plastic

LF

Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. *Example: Location and Measurement Technician*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$19.15
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-4193 Plating and Coating Machine Setters, Operators and Tenders, Metal and Plastic

LS

Set up, operate, or tend plating or coating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. *Examples: Anodizer; Electroplater; Galvanizer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	284
2016 Projected Employment:	303
Growth Rate, 2006-2016:	6.7%
Annual Openings:	10

Industry	2006 Share	2016 Share
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n

51-4194 Tool Grinders, Filers, and Sharpeners

LF

Perform precision smoothing, sharpening, polishing, or grinding of metal objects. *Examples: Die Polisher; Precision Honer; Tool Maintenance Worker*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$14.46
2006 Estimated Employment:	154
2016 Projected Employment:	150
Growth Rate, 2006-2016:	-2.6%
Annual Openings:	3

Industry	2006 Share	2016 Share
Self-Employed Workers	18.8%	22.0%
321 Wood Product Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
5616 Investigation and Security Services	n	n
811 Repair and Maintenance	n	n

51-4199 Metal Workers and Plastic Workers, All Other

LS

All metalworkers and plastic workers not listed separately. *Examples: Balancing Machine Operator; Film Casting Operator; Nail Making Machine Setter*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$14.33
2006 Estimated Employment:	1,352
2016 Projected Employment:	1,101
Growth Rate, 2006-2016:	-18.6%
Annual Openings:	22

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	23.6%	24.7%
326 Plastics & Rubber Products Manufacturing	18.3%	18.7%
339 Miscellaneous Manufacturing	10.7%	9.1%
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n

51-5011 Bindery Workers

LF

Set up or operate binding machines that produce books and other printed materials. *Examples: Book Coverer; Stitching Machine Operator; Bookbinding Machine Operator*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$14.50
2006 Estimated Employment:	215
2016 Projected Employment:	176
Growth Rate, 2006-2016:	-18.1%
Annual Openings:	3

Industry	2006 Share	2016 Share
State Government, ex. Education and Hospitals	1.4%	1.7%
Self-Employed Workers	1.4%	1.7%
323 Printing and Related Support Activities	n	n
511 Publishing Industries	n	n

51-5021 Job Printers

LF

Set type according to copy; operate press to print job order; and read proof for errors and clarity of impression, and correct imperfections. Job printers are often found in small establishments where work combines several job skills. *Examples: Job Press Operator; Apprentice Job Printer*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	\$18.42
2006 Estimated Employment:	226
2016 Projected Employment:	215
Growth Rate, 2006-2016:	-4.9%
Annual Openings:	2

Industry	2006 Share	2016 Share
Self-Employed Workers	3.1%	3.7%
323 Printing and Related Support Activities	n	n
511 Publishing Industries	n	n
5418 Advertising and Related Services	n	n
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n

51-5022 Prepress Technicians and Workers

LS

Set up and prepare material for printing presses. *Example: Photoengraving Etcher*

Training Category: Postsecondary voc. training

2007 Average Wage:	\$14.47
2006 Estimated Employment:	507
2016 Projected Employment:	420
Growth Rate, 2006-2016:	-17.2%
Annual Openings:	8

Industry	2006 Share	2016 Share
323 Printing and Related Support Activities	60.4%	59.3%
511 Publishing Industries	18.2%	18.8%
322 Paper Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
5418 Advertising and Related Services	n	n

51-5023 Printing Machine Operators

LS

Set up or operate various types of printing machines, such as offset, letterset, intaglio, or gravure presses or screen printers to produce print on paper or other materials. *Examples: Bag Printer; Offset Press Operator; Lithoplate Maker*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.04
2006 Estimated Employment:	818
2016 Projected Employment:	785
Growth Rate, 2006-2016:	-4.0%
Annual Openings:	18

Industry	2006 Share	2016 Share
323 Printing and Related Support Activities	56.1%	60.0%
511 Publishing Industries	7.7%	7.5%
313 Textile Mills	n	n
322 Paper Manufacturing	n	n
325 Chemical Manufacturing	n	n
5414 Specialized Design Services	n	n

51-6011 Laundry and Dry-Cleaning Workers

FA

Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies, fine linens, rugs, and carpets. Include spotters and dyers of these articles. *Examples: Laundry Carpet Cleaner; Silk Spotter; Washing Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$10.60
2006 Estimated Employment:	1,133
2016 Projected Employment:	1,284
Growth Rate, 2006-2016:	13.3%
Annual Openings:	40

Industry	2006 Share	2016 Share
812 Personal and Laundry Services	57.6%	55.3%
623 Nursing and Residential Care Facilities	15.5%	17.5%
Self-Employed Workers	7.9%	7.8%
721 Accommodation	7.5%	7.8%
Local Government, ex. Education	4.8%	4.9%
622 Hospitals	n	n

51-6021 Pressers, Textile, Garment, and Related Materials

LF

Press or shape articles by hand or machine. *Examples: Clothes Ironer; Garment Steamer; Steam Operator*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$10.88
2006 Estimated Employment:	236
2016 Projected Employment:	240
Growth Rate, 2006-2016:	1.7%
Annual Openings:	2

Industry	2006 Share	2016 Share
812 Personal and Laundry Services	84.8%	85.4%
Self-Employed Workers	3.0%	3.3%
Local Government, ex. Education	2.1%	2.1%
313 Textile Mills	n	n
5613 Employment Services	n	n

51-6031 Sewing Machine Operators

LS

Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products. *Examples: Blind Stitch Machine Operator; Loop Tacker; Hemmer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$11.69
2006 Estimated Employment:	613
2016 Projected Employment:	536
Growth Rate, 2006-2016:	-12.6%
Annual Openings:	6

Industry	2006 Share	2016 Share
315 Apparel Manufacturing	13.5%	7.3%
314 Textile Product Mills	10.9%	10.3%
Self-Employed Workers	7.7%	11.0%
323 Printing and Related Support Activities	n	n
339 Miscellaneous Manufacturing	n	n
451 Sporting Goods/Hobby/Book/Music Stores	n	n

51-6041 Shoe and Leather Workers and Repairers

LF

Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles. *Examples: Upper Cutter; Cobbler; Saddle Maker*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$10.28
2006 Estimated Employment:	40
2016 Projected Employment:	28
Growth Rate, 2006-2016:	-30.0%
Annual Openings:	1

Industry	2006 Share	2016 Share
316 Leather and Allied Product Manufacturing	n	n
Self-Employed Workers	n	n

51-6042 Shoe Machine Operators and Tenders

LF

Operate or tend a variety of machines to join, decorate, reinforce, or finish shoes and shoe parts.

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
316 Leather and Allied Product Manufacturing	n	n

51-6052 Tailors, Dressmakers, and Custom Sewers

LF

Design, make, alter, repair, or fit garments. *Examples: Coat Maker; Hand Finisher*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$12.15
2006 Estimated Employment:	166
2016 Projected Employment:	179
Growth Rate, 2006-2016:	7.8%
Annual Openings:	4

Industry	2006 Share	2016 Share
Self-Employed Workers	44.0%	46.4%
448 Clothing and Clothing Accessories Stores	33.1%	33.5%
314 Textile Product Mills	n	n
323 Printing and Related Support Activities	n	n
451 Sporting Goods/Hobby/Book/Music Stores	n	n
452 General Merchandise Stores	n	n

51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders

LF

Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers. *Examples: Bleach Range Operator; Rug Dyer; Skein Yarn Dyer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$12.30
2006 Estimated Employment:	43
2016 Projected Employment:	28
Growth Rate, 2006-2016:	-34.9%
Annual Openings:	1

Industry	2006 Share	2016 Share
313 Textile Mills	n	n
316 Leather and Allied Product Manufacturing	n	n

51-6062 Textile Cutting Machine Setters, Operators and Tenders

LF

Set up, operate, or tend machines that cut textiles. *Examples: Canvas Cutter; Rag Shredder; Welt Trimming Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	55
2016 Projected Employment:	40
Growth Rate, 2006-2016:	-27.3%
Annual Openings:	2

Industry	2006 Share	2016 Share
313 Textile Mills	n	n
314 Textile Product Mills	n	n
315 Apparel Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
448 Clothing and Clothing Accessories Stores	n	n

51-6063 Textile Knitting and Weaving Machine Setters, Operators and Tenders

LF

Set up, operate, or tend machines that knit, loop, weave, or draw in textiles. *Examples: Crochet Machine Operator; Ribbing Machine Operator; Looping Machine Operator*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	\$14.24
2006 Estimated Employment:	154
2016 Projected Employment:	102
Growth Rate, 2006-2016:	-33.8%
Annual Openings:	4

Industry	2006 Share	2016 Share
313 Textile Mills	94.2%	92.2%
Self-Employed Workers	5.8%	7.8%

51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators and Tenders

LF

Set up, operate, or tend machines that wind or twist textiles; or draw out and combine sliver, such as wool, hemp, or synthetic fibers. *Examples: Beamer Operator; Bobbin Doffer; Frame Tender*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$11.48
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
313 Textile Mills	n	n
333 Machinery Manufacturing	n	n

51-6091 Extruding & Forming Machine Setters, Operators & Tenders, Synthetic & Glass Fibers

LF

Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials, such as liquid polymer, rayon, and fiberglass. *Examples: Fiber Machine Tender; Box Spinner; Synthetic Filament Spinner*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
313 Textile Mills	n	n
315 Apparel Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n

51-6093 Upholsterers

LF

Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel. *Examples: Pattern Grader; Shoe Patternmaker*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
Self-Employed Workers	26.3%	27.8%
314 Textile Product Mills	n	n
337 Furniture and Related Product Mfg	n	n
442 Furniture and Home Furnishings Stores	n	n
811 Repair and Maintenance	n	n

51-6099 Textile, Apparel, and Furnishings Workers, All Other

LS

All textile, apparel, and furnishings workers not listed separately. *Examples: Napper; Carding Machine Operator; Mercerizer*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$12.78
2006 Estimated Employment:	268
2016 Projected Employment:	169
Growth Rate, 2006-2016:	-36.9%
Annual Openings:	7

Industry	2006 Share	2016 Share
313 Textile Mills	55.6%	52.1%
314 Textile Product Mills	9.7%	10.1%
Self-Employed Workers	5.2%	5.9%
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
812 Personal and Laundry Services	n	n

51-7011 Cabinetmakers and Bench Carpenters

LS

Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products. *Examples: Marquetry Worker; Antique Furniture Repairer; Wood Machinist*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$16.33
2006 Estimated Employment:	586
2016 Projected Employment:	538
Growth Rate, 2006-2016:	-8.2%
Annual Openings:	17

Industry	2006 Share	2016 Share
337 Furniture and Related Product Mfg	42.8%	42.8%
321 Wood Product Manufacturing	39.6%	39.0%
Self-Employed Workers	14.0%	14.3%

51-7021 Furniture Finishers

LF

Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish. *Examples: Furniture Polisher; Refinisher; Wood Grainer*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$14.58
2006 Estimated Employment:	97
2016 Projected Employment:	90
Growth Rate, 2006-2016:	-7.2%
Annual Openings:	2

Industry	2006 Share	2016 Share
337 Furniture and Related Product Mfg	57.7%	51.1%
Self-Employed Workers	20.6%	22.2%
442 Furniture and Home Furnishings Stores	n	n
484 Truck Transportation	n	n
811 Repair and Maintenance	n	n

51-7041 Sawing Machine Setters, Operators and Tenders, Wood

LS

Set up, operate, or tend wood sawing machines. Include head sawyers. *Examples: Crozer Operator; Sawyer; Wood Cutter*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$12.54
2006 Estimated Employment:	339
2016 Projected Employment:	343
Growth Rate, 2006-2016:	1.2%
Annual Openings:	7

Industry	2006 Share	2016 Share
Self-Employed Workers	8.0%	9.0%
321 Wood Product Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n
423 Merchant Wholesalers, Durable Goods	n	n
444 Building Material & Garden Supply Stores	n	n

51-7042 Woodworking Machine Setters, Operators and Tenders, Except Sawing

LS

Set up, operate, or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines. *Examples: Frazer; Molding Sander*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.01
2006 Estimated Employment:	383
2016 Projected Employment:	397
Growth Rate, 2006-2016:	3.7%
Annual Openings:	11

Industry	2006 Share	2016 Share
337 Furniture and Related Product Mfg	41.8%	37.5%
321 Wood Product Manufacturing	30.3%	29.0%
Self-Employed Workers	2.9%	3.0%
238 Specialty Trade Contractors	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n

51-7099 Woodworkers, All Other

LS

All woodworkers not listed separately. *Examples: Wood Carver; Pole Framer; Veneer Taper*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$10.15
2006 Estimated Employment:	213
2016 Projected Employment:	210
Growth Rate, 2006-2016:	-1.4%
Annual Openings:	5

Industry	2006 Share	2016 Share
Self-Employed Workers	43.2%	44.8%
238 Specialty Trade Contractors	n	n
321 Wood Product Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n
5617 Services to Buildings and Dwellings	n	n
6116 Other Schools and Instruction	n	n

51-8012 Power Distributors and Dispatchers

LF

Coordinate, regulate, or distribute electricity or steam. *Examples: Electric and Gas Load Dispatcher; Substation Operator*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
221 Utilities	n	n
322 Paper Manufacturing	n	n

51-8013 Power Plant Operators

LS

Control, operate, or maintain machinery to generate electric power. Include auxiliary equipment operators. *Examples: Hydroelectric Operator; Generator Operator; Power House Operator*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$22.68
2006 Estimated Employment:	142
2016 Projected Employment:	135
Growth Rate, 2006-2016:	-4.9%
Annual Openings:	5

Industry	2006 Share	2016 Share
221 Utilities	74.7%	82.2%
322 Paper Manufacturing	n	n
6112 Junior Colleges	n	n
622 Hospitals	n	n

51-8021 Stationary Engineers and Boiler Operators

LF

Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers. *Examples: Cooling System Operator; Low Pressure Firer; Steam Engineer*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$20.18
2006 Estimated Employment:	107
2016 Projected Employment:	100
Growth Rate, 2006-2016:	-6.5%
Annual Openings:	2

Industry	2006 Share	2016 Share
Federal Government, ex. Postal Service	10.3%	10.0%
221 Utilities	n	n
322 Paper Manufacturing	n	n
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n
622 Hospitals	n	n

51-8031 Water and Liquid Waste Treatment Plant and System Operators

FA

Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or liquid waste. *Examples: Disposal Operator; Filtration Plant Operator; Sewage Plant Operator*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$19.75
2006 Estimated Employment:	317
2016 Projected Employment:	362
Growth Rate, 2006-2016:	14.2%
Annual Openings:	11

Industry	2006 Share	2016 Share
Local Government, ex. Education	70.7%	70.7%
State Government, ex. Education and Hospitals	4.7%	4.4%
Self-Employed Workers	1.3%	1.7%
221 Utilities	n	n
322 Paper Manufacturing	n	n
5413 Architectural and Engineering Services	n	n

51-8091 Chemical Plant and System Operators

LF

Control or operate an entire chemical process or system of machines. *Examples: Denitrator; Nitrogen Operator; Wash Operator*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	n/a
2006 Estimated Employment:	30
2016 Projected Employment:	27
Growth Rate, 2006-2016:	-10.0%
Annual Openings:	1

Industry	2006 Share	2016 Share
322 Paper Manufacturing	n	n
324 Petroleum & Coal Products Manufacturing	n	n
325 Chemical Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n

51-8099 Plant and System Operators, All Other

LF

All plant and system operators not listed separately. *Examples: Asphalt Plant Operator; Lime Filter Operator; Incinerator Operator*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	\$23.78
2006 Estimated Employment:	145
2016 Projected Employment:	119
Growth Rate, 2006-2016:	-17.9%
Annual Openings:	4

Industry	2006 Share	2016 Share
Federal Government, ex. Postal Service	4.1%	4.2%
221 Utilities	n	n
322 Paper Manufacturing	n	n
324 Petroleum & Coal Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
562 Waste Management and Remediation Service	n	n

51-9011 Chemical Equipment Operators and Tenders

LF

Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels. *Examples: Acetylene Plant Operator; Caustic Purification Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$18.66
2006 Estimated Employment:	155
2016 Projected Employment:	153
Growth Rate, 2006-2016:	-1.3%
Annual Openings:	4

Industry	2006 Share	2016 Share
313 Textile Mills	n	n
322 Paper Manufacturing	n	n
325 Chemical Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

51-9012 Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Ops & Tenders

LS

Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills. These machines extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product. Include dairy processing equipment operators. *Examples: Dairy Processing Equipment Operator; Distiller*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$17.41
2006 Estimated Employment:	225
2016 Projected Employment:	240
Growth Rate, 2006-2016:	6.7%
Annual Openings:	7

Industry	2006 Share	2016 Share
311 Food Manufacturing	17.8%	16.7%
212 Mining (except Oil and Gas)	n	n
312 Beverage & Tobacco Product Manufacturing	n	n
313 Textile Mills	n	n
322 Paper Manufacturing	n	n
325 Chemical Manufacturing	n	n

51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators and Tenders

LS

Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber. *Examples: Beveling and Edging Machine Operator; Pulverizer Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.17
2006 Estimated Employment:	377
2016 Projected Employment:	345
Growth Rate, 2006-2016:	-8.5%
Annual Openings:	6

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	23.9%	24.6%
212 Mining (except Oil and Gas)	n	n
322 Paper Manufacturing	n	n
324 Petroleum & Coal Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n

51-9022 Grinding and Polishing Workers, Hand

LS

Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Include chippers, buffers, and finishers. *Examples: Metal Sander; Gun Barrel Finisher; Hand Buffer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.53
2006 Estimated Employment:	354
2016 Projected Employment:	377
Growth Rate, 2006-2016:	6.5%
Annual Openings:	8

Industry	2006 Share	2016 Share
331 Primary Metal Manufacturing	11.0%	10.6%
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
332 Fabricated Metal Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-9023 Mixing and Blending Machine Setters, Operators and Tenders

LS

Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients. *Examples: Batch Maker; Clay Mixer; Tumbler Tender*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.35
2006 Estimated Employment:	407
2016 Projected Employment:	378
Growth Rate, 2006-2016:	-7.1%
Annual Openings:	7

Industry	2006 Share	2016 Share
325 Chemical Manufacturing	36.9%	41.0%
326 Plastics & Rubber Products Manufacturing	10.8%	10.1%
327 Nonmetallic Mineral Product Mfg	10.6%	12.4%
312 Beverage & Tobacco Product Manufacturing	n	n
322 Paper Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-9031 Cutters and Trimmers, Hand

LF

Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber. *Examples: Buttonhole Maker; Fur Trimmer; Thread Clipper*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$10.08
2006 Estimated Employment:	63
2016 Projected Employment:	63
Growth Rate, 2006-2016:	0.0%
Annual Openings:	1

Industry	2006 Share	2016 Share
313 Textile Mills	n	n
315 Apparel Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
331 Primary Metal Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-9032 Cutting and Slicing Machine Setters, Operators and Tenders

LS

Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material. *Examples: Bias Machine Operator; Slate Trimmer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$14.15
2006 Estimated Employment:	752
2016 Projected Employment:	640
Growth Rate, 2006-2016:	-14.9%
Annual Openings:	11

Industry	2006 Share	2016 Share
322 Paper Manufacturing	14.5%	4.5%
327 Nonmetallic Mineral Product Mfg	11.7%	13.9%
323 Printing and Related Support Activities	5.9%	6.3%
339 Miscellaneous Manufacturing	4.5%	4.5%
326 Plastics & Rubber Products Manufacturing	n	n
444 Building Material & Garden Supply Stores	n	n

51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Ops & Tenders

LS

Set up, operate, or tend machines, such as glass forming machines, plodder machines, and tuber machines, to shape and form products, such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics. *Examples: Briquette Maker; Cigarette Machine Operator; Rubber Laminating Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.99
2006 Estimated Employment:	431
2016 Projected Employment:	363
Growth Rate, 2006-2016:	-15.8%
Annual Openings:	8

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	45.7%	43.5%
327 Nonmetallic Mineral Product Mfg	18.6%	23.1%
321 Wood Product Manufacturing	n	n
322 Paper Manufacturing	n	n
333 Machinery Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders

LF

Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Include activities, such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap. *Examples: Brick Baker; Stoker; Tunnel Kiln Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.93
2006 Estimated Employment:	118
2016 Projected Employment:	105
Growth Rate, 2006-2016:	-11.0%
Annual Openings:	3

Industry	2006 Share	2016 Share
327 Nonmetallic Mineral Product Mfg	50.9%	57.1%
Self-Employed Workers	15.3%	17.1%
321 Wood Product Manufacturing	n	n
322 Paper Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n

51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers

LS

Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment. *Examples: Bearing Inspector; Testing and Regulating Technician*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.19
2006 Estimated Employment:	2,845
2016 Projected Employment:	2,735
Growth Rate, 2006-2016:	-3.9%
Annual Openings:	42

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	21.1%	19.7%
332 Fabricated Metal Product Manufacturing	14.2%	14.7%
331 Primary Metal Manufacturing	7.2%	7.4%
333 Machinery Manufacturing	7.0%	7.2%
326 Plastics & Rubber Products Manufacturing	6.5%	6.1%
5613 Employment Services	n	n

51-9071 Jewelers and Precious Stone and Metal Workers

LF

Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. *Examples: Diamond Expert; Goldsmith*

Training Category: Postsecondary voc. training

2007 Average Wage:	\$20.82
2006 Estimated Employment:	108
2016 Projected Employment:	108
Growth Rate, 2006-2016:	0.0%
Annual Openings:	2

Industry	2006 Share	2016 Share
Self-Employed Workers	50.9%	54.6%
339 Miscellaneous Manufacturing	n	n
448 Clothing and Clothing Accessories Stores	n	n

51-9081 Dental Laboratory Technicians

LS

Construct and repair full or partial dentures or dental appliances. *Examples: Ceramist; Crown and Bridge Technician*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$18.96
2006 Estimated Employment:	264
2016 Projected Employment:	255
Growth Rate, 2006-2016:	-3.4%
Annual Openings:	5

Industry	2006 Share	2016 Share
Self-Employed Workers	13.3%	13.7%
339 Miscellaneous Manufacturing	n	n
621 Ambulatory Health Care Services	n	n

51-9082 Medical Appliance Technicians

LF

Construct, fit, maintain, or repair medical supportive devices, such as braces, artificial limbs, joints, arch supports, and other surgical and medical appliances. *Examples: Brace Maker; Prosthetics Technician*

Training Category: Long-term OJT (12 mos.or more)

2007 Average Wage:	\$21.28
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
Self-Employed Workers	13.6%	12.8%
339 Miscellaneous Manufacturing	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

51-9083 Ophthalmic Laboratory Technicians

LS

Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. *Examples: Eyeglass Maker; Spectacle Truer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$10.31
2006 Estimated Employment:	197
2016 Projected Employment:	213
Growth Rate, 2006-2016:	8.1%
Annual Openings:	6

Industry	2006 Share	2016 Share
333 Machinery Manufacturing	30.0%	29.1%
423 Merchant Wholesalers, Durable Goods	n	n
446 Health and Personal Care Stores	n	n
621 Ambulatory Health Care Services	n	n

51-9111 Packaging and Filling Machine Operators and Tenders

LS

Operate or tend machines to prepare industrial or consumer products for storage or shipment. Include cannery workers who pack food products. *Examples: Bottle Caser; Wrapper Layer; Strapping Machine Operator*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$13.73
2006 Estimated Employment:	1,408
2016 Projected Employment:	1,264
Growth Rate, 2006-2016:	-10.2%
Annual Openings:	26

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	31.0%	32.3%
312 Beverage & Tobacco Product Manufacturing	15.1%	15.3%
311 Food Manufacturing	10.6%	11.1%
322 Paper Manufacturing	6.2%	1.7%
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n

51-9121 Coating, Painting, and Spraying Machine Setters, Operators and Tenders

LS

Set up, operate, or tend machines to coat or paint any of a wide variety of products including food, glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials. *Examples: Electrostatic Paint Operator; Silvering Applicator; Supercalender Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$14.77
2006 Estimated Employment:	383
2016 Projected Employment:	343
Growth Rate, 2006-2016:	-10.4%
Annual Openings:	8

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	10.4%	12.2%
333 Machinery Manufacturing	8.4%	9.6%
313 Textile Mills	n	n
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-9122 Painters, Transportation Equipment

FA

Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes. *Examples: Auto Painter; Rust Proofer*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$17.44
2006 Estimated Employment:	133
2016 Projected Employment:	154
Growth Rate, 2006-2016:	15.8%
Annual Openings:	5

Industry	2006 Share	2016 Share
Self-Employed Workers	3.8%	3.9%
423 Merchant Wholesalers, Durable Goods	n	n
488 Support Activities for Transportation	n	n
811 Repair and Maintenance	n	n

51-9123 Painting, Coating, and Decorating Workers

LF

Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, cakes, toys, books, or leather. *Examples: Stenciler; Candy Dipper; Mirror Silverer*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$9.71
2006 Estimated Employment:	171
2016 Projected Employment:	163
Growth Rate, 2006-2016:	-4.7%
Annual Openings:	3

Industry	2006 Share	2016 Share
Self-Employed Workers	3.5%	3.7%
238 Specialty Trade Contractors	n	n
321 Wood Product Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
337 Furniture and Related Product Mfg	n	n
452 General Merchandise Stores	n	n

51-9131 Photographic Process Workers

LF

Perform precision work involved in photographic processing, such as editing photographic negatives and prints, using photo-mechanical, chemical, or computerized methods. *Examples: Photographic Colorist; Darkroom Technician*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$16.07
2006 Estimated Employment:	51
2016 Projected Employment:	35
Growth Rate, 2006-2016:	-31.4%
Annual Openings:	2

Industry	2006 Share	2016 Share
323 Printing and Related Support Activities	n	n
334 Computer and Electronic Product Mfg	n	n
443 Electronics and Appliance Stores	n	n
511 Publishing Industries	n	n
518 Data Processing, Hosting, and Related Services	n	n
812 Personal and Laundry Services	n	n

51-9132 Photographic Processing Machine Operators

LS

Operate photographic processing machines, such as photographic printing machines, film developing machines, and mounting presses. *Examples: Film Printer; Reproduction Machine Loader*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$10.15
2006 Estimated Employment:	336
2016 Projected Employment:	177
Growth Rate, 2006-2016:	-47.3%
Annual Openings:	12

Industry	2006 Share	2016 Share
446 Health and Personal Care Stores	17.0%	15.8%
443 Electronics and Appliance Stores	n	n
452 General Merchandise Stores	n	n
812 Personal and Laundry Services	n	n

51-9141 Semiconductor Processors

LF

Perform any or all of the following functions in the manufacture of electronic semiconductors: load semiconductor material into furnace; saw formed ingots into segments; load individual segment into crystal growing chamber and monitor controls; locate crystal axis in ingot using x-ray equipment and saw ingots into wafers; clean, polish, and load wafers into series of special purpose furnaces, chemical baths, and equipment used to form circuitry and change conductive properties. *Examples: Circuit Recorder; Crystal Grower; Wafer Machine Operator*

Training Category: Associate's degree

2007 Average Wage:	\$12.40
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	n	n

51-9191 Cementing and Gluing Machine Operators and Tenders

LS

Operate or tend cementing and gluing machines to join items for further processing or to form a completed product. Processes include joining veneer sheets into plywood; gluing paper; joining rubber and rubberized fabric parts, plastic, simulated leather, or other materials. *Examples: Bonding Molder; Paper Sealer; Taper Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$10.94
2006 Estimated Employment:	248
2016 Projected Employment:	227
Growth Rate, 2006-2016:	-8.5%
Annual Openings:	7

Industry	2006 Share	2016 Share
321 Wood Product Manufacturing	n	n
322 Paper Manufacturing	n	n
325 Chemical Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders

LF

Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber, to remove impurities. *Examples: Acid Dipper; Degreaser Operator; Pulp Bleacher*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$14.44
2006 Estimated Employment:	135
2016 Projected Employment:	113
Growth Rate, 2006-2016:	-16.3%
Annual Openings:	4

Industry	2006 Share	2016 Share
322 Paper Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
722 Food Services and Drinking Places	n	n

51-9193 Cooling and Freezing Equipment Operators and Tenders

LF

Operate or tend equipment, such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels, to cool or freeze products, food, blood plasma, and chemicals. *Examples: Chiller Tender; Ice Maker*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry		2006 Share	2016 Share
311	Food Manufacturing	n	n

51-9194 Etchers and Engravers

LF

Engrave or etch metal, wood, rubber, or other materials for identification or decorative purposes. Include such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers. *Examples: Embrosser; Letterer*

Training Category: Long-term OJT (12 mos. or more)

2007 Average Wage:	n/a
2006 Estimated Employment:	29
2016 Projected Employment:	27
Growth Rate, 2006-2016:	-6.9%
Annual Openings:	1

Industry		2006 Share	2016 Share
Self-Employed Workers		17.2%	18.5%
323	Printing and Related Support Activities	n	n
333	Machinery Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n
339	Miscellaneous Manufacturing	n	n
453	Miscellaneous Store Retailers	n	n

51-9195 Molders, Shapers, and Casters, Except Metal and Plastic

LS

Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials. *Examples: Cigar Roller; Glass Blower; Marble Finisher*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.76
2006 Estimated Employment:	265
2016 Projected Employment:	280
Growth Rate, 2006-2016:	5.7%
Annual Openings:	8

Industry		2006 Share	2016 Share
327	Nonmetallic Mineral Product Mfg	47.6%	48.2%
Self-Employed Workers		24.2%	25.4%
334	Computer and Electronic Product Mfg	n	n
335	Electrical Equipment and Appliances	n	n

51-9196 Paper Goods Machine Setters, Operators and Tenders

LS

Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products. *Examples: Bag Machine Operator; Box Fabricator; Carton Forming Machine Operator*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.95
2006 Estimated Employment:	626
2016 Projected Employment:	373
Growth Rate, 2006-2016:	-40.4%
Annual Openings:	15

Industry		2006 Share	2016 Share
322	Paper Manufacturing	56.2%	25.5%
323	Printing and Related Support Activities	4.8%	7.2%
325	Chemical Manufacturing	n	n
333	Machinery Manufacturing	n	n
5613	Employment Services	n	n

51-9197 Tire Builders

LF

Operate machines to build tires from rubber components.

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
326 Plastics & Rubber Products Manufacturing	n	n

51-9198 Helpers—Production Workers

FA

Help production workers by performing duties of lesser skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment. *Examples: Welder's Assistant; Tailor's Aide; Millwright's Helper*

Training Category: Short-term OJT (brief demo)

2007 Average Wage:	\$11.24
2006 Estimated Employment:	1,234
2016 Projected Employment:	1,292
Growth Rate, 2006-2016:	4.7%
Annual Openings:	36

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	17.4%	18.3%
5613 Employment Services	17.0%	22.6%
333 Machinery Manufacturing	10.1%	10.3%
321 Wood Product Manufacturing	7.1%	6.0%
331 Primary Metal Manufacturing	6.6%	6.6%
326 Plastics & Rubber Products Manufacturing	n	n

51-9199 Production Workers, All Other

FA

All production workers not listed separately. *Examples: Barrel Header; Mop Maker*

Training Category: Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$13.18
2006 Estimated Employment:	1,791
2016 Projected Employment:	1,997
Growth Rate, 2006-2016:	11.5%
Annual Openings:	58

Industry	2006 Share	2016 Share
5613 Employment Services	36.3%	44.4%
334 Computer and Electronic Product Mfg	10.5%	8.9%
335 Electrical Equipment and Appliances	8.9%	8.8%
331 Primary Metal Manufacturing	5.0%	4.6%
327 Nonmetallic Mineral Product Mfg	4.6%	4.0%
333 Machinery Manufacturing	4.2%	4.0%