

49-9096 Riggers



Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.
Examples: Crane Rigger; Yard Rigger

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$20.03
2016 Estimated Employment:	28
2026 Projected Employment:	31
Growth Rate, 2016-2026:	10.7%
Annual Openings:	3

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	n	n
336 Transportation Equipment Manufacturing	n	n
441 Motor Vehicle and Parts Dealers	n	n
484 Truck Transportation	n	n
532 Rental and Leasing Services	n	n
713 Amusement, Gambling, and Recreation	n	n

49-9098 Helpers--Installation, Maintenance, and Repair Workers



Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties, such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers. *Examples: Mechanic's Helper; Diver's Helper; Blacksmith's Helper*

Training Category: High School | none | Short OJT

2017 Average Wage:	\$12.95
2016 Estimated Employment:	546
2026 Projected Employment:	609
Growth Rate, 2016-2026:	11.5%
Annual Openings:	78

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	22.9%	23.3%
811 Repair and Maintenance	20.0%	19.7%
441 Motor Vehicle and Parts Dealers	17.2%	17.4%
713 Amusement, Gambling, and Recreation	4.8%	4.8%
Local Government, Excluding Education	3.7%	3.5%
State Government, excl. Education and Hospitals	3.3%	3.1%

49-9099 Installation, Maintenance, and Repair Workers, All Other



All installation, maintenance, and repair workers and helpers not listed separately. *Examples: Blacksmith; Cooper; Gunsmith*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$21.06
2016 Estimated Employment:	476
2026 Projected Employment:	527
Growth Rate, 2016-2026:	10.7%
Annual Openings:	52

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	18.1%	19.0%
Self-employed Workers	13.9%	13.7%
238 Specialty Trade Contractors	9.2%	9.3%
Federal Government, Excluding Post Office	4.8%	4.4%
531 Real Estate	4.2%	4.0%
5617 Services to Buildings and Dwellings	4.2%	4.2%

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



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: High School | < 5 yrs | none

2017 Average Wage:	\$31.34
2016 Estimated Employment:	3,008
2026 Projected Employment:	3,012
Growth Rate, 2016-2026:	0.1%
Annual Openings:	289

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	14.7%	14.8%
334 Computer and Electronic Product Manufacturing	13.7%	12.6%
326 Plastics and Rubber Products Manufacturing	9.0%	8.6%
333 Machinery Manufacturing	5.8%	6.1%
335 Electrical Equipment and Appliance Manufacturing	5.4%	5.4%
339 Miscellaneous Manufacturing	4.5%	4.2%

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



Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles. *Examples: Aircraft Fuselage Framer; Aircraft Riveter*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
336 Transportation Equipment Manufacturing	n	n

51-2021 Coil Winders, Tapers, and Finishers



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.06
2016 Estimated Employment:	66
2026 Projected Employment:	53
Growth Rate, 2016-2026:	-19.7%
Annual Openings:	6

Industry	2016 Share	2026 Share
335 Electrical Equipment and Appliance Manufacturing	83.3%	83.0%
334 Computer and Electronic Product Manufacturing	n	n
5613 Employment Services	n	n

51-2022 Electrical and Electronic Equipment Assemblers



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: High School | none | Moderate OJT

2017 Average Wage:	\$16.83
2016 Estimated Employment:	2,212
2026 Projected Employment:	1,728
Growth Rate, 2016-2026:	-21.9%
Annual Openings:	181

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	52.8%	49.7%
335 Electrical Equipment and Appliance Manufacturing	34.8%	36.1%
5613 Employment Services	6.3%	7.1%
423 Merchant Wholesalers, Durable Goods	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
551 Management of Companies and Enterprises	n	n

51-2023 Electromechanical Equipment Assemblers



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.62
2016 Estimated Employment:	1,224
2026 Projected Employment:	954
Growth Rate, 2016-2026:	-22.1%
Annual Openings:	99

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	51.2%	48.2%
333 Machinery Manufacturing	29.5%	30.9%
5613 Employment Services	9.2%	10.1%
335 Electrical Equipment and Appliance Manufacturing	3.4%	3.4%
336 Transportation Equipment Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n

51-2031 Engine and Other Machine Assemblers



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: High School | none | Moderate OJT

2017 Average Wage:	\$20.90
2016 Estimated Employment:	197
2026 Projected Employment:	174
Growth Rate, 2016-2026:	-11.7%
Annual Openings:	17

Industry	2016 Share	2026 Share
333 Machinery Manufacturing	51.8%	50.0%
221 Utilities	n	n
332 Fabricated Metal Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
5613 Employment Services	n	n
811 Repair and Maintenance	n	n

51-2041 Structural Metal Fabricators and Fitters



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: High School | none | Moderate OJT

2017 Average Wage:	\$21.87
2016 Estimated Employment:	271
2026 Projected Employment:	223
Growth Rate, 2016-2026:	-17.7%
Annual Openings:	21

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	87.5%	86.1%
238 Specialty Trade Contractors	n	n
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n

51-2091 Fiberglass Laminators and Fabricators



Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products. *Examples: Fiberglass Boat Builder, Fiberglass Ski Maker*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-2092 Team Assemblers



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. *Examples: Team Assembly Line Machine Operator, Lead Team Assembler*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$17.18
2016 Estimated Employment:	4,415
2026 Projected Employment:	3,726
Growth Rate, 2016-2026:	-15.6%
Annual Openings:	400

Industry	2016 Share	2026 Share
333 Machinery Manufacturing	22.4%	22.4%
334 Computer and Electronic Product Manufacturing	16.0%	14.1%
5613 Employment Services	12.2%	15.5%
332 Fabricated Metal Product Manufacturing	10.8%	10.2%
339 Miscellaneous Manufacturing	7.8%	6.9%
335 Electrical Equipment and Appliance Manufacturing	6.4%	6.0%

51-2093 Timing Device Assemblers and Adjusters



Perform precision assembling or adjusting, within narrow tolerances, of timing devices, such as watches, clocks, or chronometers.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
335 Electrical Equipment and Appliance Manufacturing	100.0%	100.0%

51-2099 Assemblers and Fabricators, All Other



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$15.57
2016 Estimated Employment:	749
2026 Projected Employment:	630
Growth Rate, 2016-2026:	-15.9%
Annual Openings:	67

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	18.7%	16.4%
5613 Employment Services	17.6%	18.6%
332 Fabricated Metal Product Manufacturing	11.4%	10.8%
334 Computer and Electronic Product Manufacturing	9.0%	7.9%
333 Machinery Manufacturing	6.9%	6.8%
452 General Merchandise Stores	6.4%	8.3%

51-3011 Bakers



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: none | none | Long OJT

2017 Average Wage:	\$13.78
2016 Estimated Employment:	981
2026 Projected Employment:	1,076
Growth Rate, 2016-2026:	9.7%
Annual Openings:	153

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	30.6%	31.5%
311 Food Manufacturing	25.9%	24.5%
445 Food and Beverage Stores	16.4%	15.8%
5613 Employment Services	8.6%	8.5%
452 General Merchandise Stores	8.1%	8.6%
Self-employed Workers	4.3%	5.2%

51-3021 Butchers and Meat Cutters



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

Training Category: none | none | Long OJT

2017 Average Wage:	\$19.38
2016 Estimated Employment:	510
2026 Projected Employment:	540
Growth Rate, 2016-2026:	5.9%
Annual Openings:	67

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	92.4%	92.2%
311 Food Manufacturing	2.9%	3.0%
452 General Merchandise Stores	2.4%	2.4%
424 Merchant Wholesalers, Nondurable Goods	1.2%	1.1%
Self-employed Workers	0.6%	0.7%

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



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

Training Category: none | none | Short OJT

2017 Average Wage:	\$12.32
2016 Estimated Employment:	94
2026 Projected Employment:	104
Growth Rate, 2016-2026:	10.6%
Annual Openings:	13

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	47.9%	46.2%
424 Merchant Wholesalers, Nondurable Goods	34.0%	36.5%
Self-employed Workers	1.1%	1.0%
311 Food Manufacturing	n	n
452 General Merchandise Stores	n	n

51-3023 Slaughterers and Meat Packers



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: none | none | Short OJT

2017 Average Wage:	\$14.27
2016 Estimated Employment:	37
2026 Projected Employment:	38
Growth Rate, 2016-2026:	2.7%
Annual Openings:	5

Industry	2016 Share	2026 Share
311 Food Manufacturing	n	n
445 Food and Beverage Stores	n	n

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



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: none | none | Moderate OJT

2017 Average Wage:	\$16.47
2016 Estimated Employment:	58
2026 Projected Employment:	64
Growth Rate, 2016-2026:	10.3%
Annual Openings:	7

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	41.4%	39.1%
424 Merchant Wholesalers, Nondurable Goods	31.0%	32.8%
311 Food Manufacturing	24.1%	23.4%
Self-employed Workers	1.7%	1.6%
452 General Merchandise Stores	1.7%	3.1%

51-3092 Food Batchmakers



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: High School | none | Moderate OJT

2017 Average Wage:	\$15.13
2016 Estimated Employment:	413
2026 Projected Employment:	435
Growth Rate, 2016-2026:	5.3%
Annual Openings:	60

Industry	2016 Share	2026 Share
311 Food Manufacturing	71.2%	70.1%
445 Food and Beverage Stores	17.0%	17.0%
424 Merchant Wholesalers, Nondurable Goods	8.2%	9.0%
454 Nonstore Retailers	1.5%	1.6%
Self-employed Workers	1.2%	1.4%
722 Food Services and Drinking Places	0.7%	0.7%

51-3093 Food Cooking Machine Operators and Tenders



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: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
311	Food Manufacturing	n	n
454	Nonstore Retailers	n	n

51-3099 Food Processing Workers, All Other



All food processing workers not listed separately. *Examples: Poultry Hanger; Yeast Maker*

Training Category: none | none | Moderate OJT

2017 Average Wage:	\$14.08
2016 Estimated Employment:	139
2026 Projected Employment:	153
Growth Rate, 2016-2026:	10.1%
Annual Openings:	17

Industry		2016 Share	2026 Share
5613	Employment Services	66.9%	66.0%
452	General Merchandise Stores	20.9%	21.6%
311	Food Manufacturing	7.2%	6.5%
	Self-employed Workers	5.0%	5.9%

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$18.26
2016 Estimated Employment:	1,963
2026 Projected Employment:	1,974
Growth Rate, 2016-2026:	0.6%
Annual Openings:	193

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	46.4%	46.9%
333	Machinery Manufacturing	18.2%	19.0%
334	Computer and Electronic Product Manufacturing	15.7%	14.6%
331	Primary Metal Manufacturing	5.2%	4.8%
339	Miscellaneous Manufacturing	4.8%	4.5%
326	Plastics and Rubber Products Manufacturing	4.2%	4.1%

51-4012 Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic



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

Training Category: Postsecondary | none | Moderate OJT

2017 Average Wage:	\$27.39
2016 Estimated Employment:	182
2026 Projected Employment:	212
Growth Rate, 2016-2026:	16.5%
Annual Openings:	22

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	58.2%	58.5%
333	Machinery Manufacturing	14.3%	14.6%
339	Miscellaneous Manufacturing	8.8%	8.5%
334	Computer and Electronic Product Manufacturing	7.7%	7.1%
326	Plastics and Rubber Products Manufacturing	5.0%	4.7%
444	Building Material and Garden Supply Stores	2.2%	1.9%

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$17.81
2016 Estimated Employment:	796
2026 Projected Employment:	679
Growth Rate, 2016-2026:	-14.7%
Annual Openings:	61

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	52.9%	52.0%
335 Electrical Equipment and Appliance Manufacturing	17.8%	18.3%
331 Primary Metal Manufacturing	12.6%	12.8%
332 Fabricated Metal Product Manufacturing	12.1%	11.9%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
339 Miscellaneous Manufacturing	n	n

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$18.39
2016 Estimated Employment:	80
2026 Projected Employment:	61
Growth Rate, 2016-2026:	-23.8%
Annual Openings:	5

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	72.5%	72.1%
332 Fabricated Metal Product Manufacturing	n	n
337 Furniture and Related Product Manufacturing	n	n

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$18.22
2016 Estimated Employment:	72
2026 Projected Employment:	65
Growth Rate, 2016-2026:	-9.7%
Annual Openings:	6

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	47.2%	47.7%
5613 Employment Services	15.3%	16.9%
323 Printing and Related Support Activities	13.9%	12.3%
326 Plastics and Rubber Products Manufacturing	12.5%	12.3%
331 Primary Metal Manufacturing	9.7%	9.2%
333 Machinery Manufacturing	1.4%	1.5%

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$17.50
2016 Estimated Employment:	497
2026 Projected Employment:	438
Growth Rate, 2016-2026:	-11.9%
Annual Openings:	46

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	34.6%	35.4%
331 Primary Metal Manufacturing	17.9%	17.4%
339 Miscellaneous Manufacturing	11.9%	11.0%
334 Computer and Electronic Product Manufacturing	9.1%	8.5%
333 Machinery Manufacturing	8.1%	8.7%
326 Plastics and Rubber Products Manufacturing	5.6%	5.5%

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$21.87
2016 Estimated Employment:	61
2026 Projected Employment:	50
Growth Rate, 2016-2026:	-18.0%
Annual Openings:	5

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	57.4%	58.0%
425 Wholesale Electronic Markets and Agents/Brokers	18.0%	18.0%
331 Primary Metal Manufacturing	13.1%	12.0%
5613 Employment Services	8.2%	8.0%
335 Electrical Equipment and Appliance Manufacturing	3.3%	4.0%

51-4033 Grinding/Lapping/ Polishing/Buffering Machine Tool Setters/ Operators/ Tenders, Metal/Plastic



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.62
2016 Estimated Employment:	735
2026 Projected Employment:	675
Growth Rate, 2016-2026:	-8.2%
Annual Openings:	67

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	50.3%	49.5%
333 Machinery Manufacturing	16.1%	16.3%
331 Primary Metal Manufacturing	11.3%	10.1%
5613 Employment Services	10.5%	11.4%
336 Transportation Equipment Manufacturing	6.5%	7.3%
Self-employed Workers	2.2%	2.4%

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$19.95
2016 Estimated Employment:	110
2026 Projected Employment:	100
Growth Rate, 2016-2026:	-9.1%
Annual Openings:	9

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	85.5%	86.0%
326 Plastics and Rubber Products Manufacturing	10.0%	9.0%
333 Machinery Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$21.52
2016 Estimated Employment:	73
2026 Projected Employment:	59
Growth Rate, 2016-2026:	-19.2%
Annual Openings:	6

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	80.8%	81.4%
326 Plastics and Rubber Products Manufacturing	n	n
333 Machinery Manufacturing	n	n

51-4041 Machinists



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: High School | none | Long OJT

2017 Average Wage:	\$22.81
2016 Estimated Employment:	2,207
2026 Projected Employment:	2,251
Growth Rate, 2016-2026:	2.0%
Annual Openings:	226

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	56.7%	56.7%
333 Machinery Manufacturing	12.4%	12.7%
334 Computer and Electronic Product Manufacturing	7.0%	6.4%
336 Transportation Equipment Manufacturing	4.7%	5.1%
326 Plastics and Rubber Products Manufacturing	4.6%	4.3%
339 Miscellaneous Manufacturing	3.2%	3.0%

51-4051 Metal-Refining Furnace Operators and Tenders



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: High School | none | Moderate OJT

2017 Average Wage:	\$19.78
2016 Estimated Employment:	50
2026 Projected Employment:	46
Growth Rate, 2016-2026:	-8.0%
Annual Openings:	5

Industry	2016 Share	2026 Share
313 Textile Mills	n	n
331 Primary Metal Manufacturing	n	n

51-4052 Pourers and Casters, Metal



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: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	100.0%	100.0%

51-4061 Model Makers, Metal and Plastic



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: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	n	n
5413 Architectural and Engineering Services	n	n

51-4062 Patternmakers, Metal and Plastic



Layout, 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: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	100.0%	100.0%

51-4071 Foundry Mold and Coremakers



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: High School | none | Moderate OJT

2017 Average Wage:	\$16.24
2016 Estimated Employment:	193
2026 Projected Employment:	147
Growth Rate, 2016-2026:	-23.8%
Annual Openings:	14

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	97.9%	98.0%
326 Plastics and Rubber Products Manufacturing	2.1%	2.0%

51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic



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: High School | none | Moderate OJT

2017 Average Wage:	\$15.48
2016 Estimated Employment:	1,642
2026 Projected Employment:	1,375
Growth Rate, 2016-2026:	-16.3%
Annual Openings:	142

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	84.8%	85.0%
331 Primary Metal Manufacturing	6.2%	5.7%
332 Fabricated Metal Product Manufacturing	4.0%	4.1%
334 Computer and Electronic Product Manufacturing	1.7%	1.6%
5613 Employment Services	1.5%	1.8%
313 Textile Mills	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$21.28
2016 Estimated Employment:	886
2026 Projected Employment:	867
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	91

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	37.7%	36.8%
335 Electrical Equipment and Appliance Manufacturing	26.6%	25.4%
336 Transportation Equipment Manufacturing	24.8%	27.2%
326 Plastics and Rubber Products Manufacturing	3.8%	3.7%
334 Computer and Electronic Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-4111 Tool and Die Makers



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: Postsecondary | none | Long OJT

2017 Average Wage:	\$27.06
2016 Estimated Employment:	333
2026 Projected Employment:	310
Growth Rate, 2016-2026:	-6.9%
Annual Openings:	29

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	26.7%	27.1%
326 Plastics and Rubber Products Manufacturing	24.6%	22.9%
333 Machinery Manufacturing	17.4%	17.4%
335 Electrical Equipment and Appliance Manufacturing	7.8%	8.4%
334 Computer and Electronic Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4121 Welders, Cutters, Solderers, and Brazers



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: High School | none | Moderate OJT

2017 Average Wage:	\$22.50
2016 Estimated Employment:	922
2026 Projected Employment:	960
Growth Rate, 2016-2026:	4.1%
Annual Openings:	103

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	47.7%	46.5%
811 Repair and Maintenance	9.0%	9.9%
336 Transportation Equipment Manufacturing	6.7%	7.2%
238 Specialty Trade Contractors	6.5%	6.9%
334 Computer and Electronic Product Manufacturing	6.5%	5.8%
333 Machinery Manufacturing	6.4%	6.7%

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.45
2016 Estimated Employment:	273
2026 Projected Employment:	240
Growth Rate, 2016-2026:	-12.1%
Annual Openings:	24

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	71.4%	70.0%
Self-employed Workers	4.8%	5.8%
238 Specialty Trade Contractors	n	n
331 Primary Metal Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
5613 Employment Services	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$19.09
2016 Estimated Employment:	132
2026 Projected Employment:	113
Growth Rate, 2016-2026:	-14.4%
Annual Openings:	10

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	43.9%	42.5%
332 Fabricated Metal Product Manufacturing	35.6%	35.4%
Self-employed Workers	0.8%	0.9%
326 Plastics and Rubber Products Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4192 Layout Workers, Metal and Plastic



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.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$16.43
2016 Estimated Employment:	94
2026 Projected Employment:	77
Growth Rate, 2016-2026:	-18.1%
Annual Openings:	6

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	64.9%	61.0%
332 Fabricated Metal Product Manufacturing	16.0%	16.9%
335 Electrical Equipment and Appliance Manufacturing	n	n
5613 Employment Services	n	n

51-4194 Tool Grinders, Filers, and Sharpeners



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$21.37
2016 Estimated Employment:	47
2026 Projected Employment:	48
Growth Rate, 2016-2026:	2.1%
Annual Openings:	5

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	38.3%	39.6%
811 Repair and Maintenance	27.7%	25.0%
321 Wood Product Manufacturing	23.4%	22.9%
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
5613 Employment Services	n	n

51-4199 Metal Workers and Plastic Workers, All Other



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$15.86
2016 Estimated Employment:	719
2026 Projected Employment:	629
Growth Rate, 2016-2026:	-12.5%
Annual Openings:	63

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	39.1%	38.3%
339 Miscellaneous Manufacturing	24.5%	23.4%
332 Fabricated Metal Product Manufacturing	17.7%	17.8%
326 Plastics and Rubber Products Manufacturing	7.2%	7.3%
333 Machinery Manufacturing	5.0%	5.6%
336 Transportation Equipment Manufacturing	n	n

51-5111 Prepress Technicians and Workers



Format and proof text and images submitted by designers and clients into finished pages. *Examples: Digital Proofing and Platemaker; Photoengraver; PlateMounter*

Training Category: Postsecondary | none | none

2017 Average Wage:	\$19.64
2016 Estimated Employment:	106
2026 Projected Employment:	89
Growth Rate, 2016-2026:	-16.0%
Annual Openings:	9

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	73.6%	70.8%
5613 Employment Services	12.3%	15.7%
511 Publishing Industries (except Internet)	4.7%	3.4%
Self-employed Workers	3.8%	3.4%
334 Computer and Electronic Product Manufacturing	n	n
6113 Colleges and Universities	n	n

51-5112 Printing Press Operators



Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. *Examples: Gravure Press Operator; Offset Press Operator*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$20.36
2016 Estimated Employment:	1,025
2026 Projected Employment:	993
Growth Rate, 2016-2026:	-3.1%
Annual Openings:	102

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	68.3%	67.0%
524 Insurance Carriers and Related Activities	11.0%	12.3%
Self-employed Workers	4.5%	4.0%
313 Textile Mills	n	n
339 Miscellaneous Manufacturing	n	n
5418 Advertising, Public Relations, and Related Services	n	n

51-5113 Print Binding and Finishing Workers



Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines. *Examples: Bookbinder; Bookbinding Machine Operator*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$16.46
2016 Estimated Employment:	113
2026 Projected Employment:	108
Growth Rate, 2016-2026:	-4.4%
Annual Openings:	14

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	92.9%	92.6%
Self-employed Workers	2.7%	2.8%
State Government, excl. Education and Hospitals	1.8%	1.9%
5614 Business Support Services	n	n
6113 Colleges and Universities	n	n

51-6011 Laundry and Dry-Cleaning Workers



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: none | none | Short OJT

2017 Average Wage:	\$11.84
2016 Estimated Employment:	978
2026 Projected Employment:	976
Growth Rate, 2016-2026:	-0.2%
Annual Openings:	132

Industry	2016 Share	2026 Share
812 Personal and Laundry Services	54.5%	51.6%
721 Accommodation	14.9%	14.9%
623 Nursing and Residential Care Facilities	8.2%	8.8%
Local Government, Excluding Education	7.3%	7.7%
5612 Facilities Support Services	4.8%	5.9%
Self-employed Workers	4.0%	4.4%

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



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

Training Category: none | none | Short OJT

2017 Average Wage:	\$10.71
2016 Estimated Employment:	238
2026 Projected Employment:	225
Growth Rate, 2016-2026:	-5.5%
Annual Openings:	28

Industry		2016 Share	2026 Share
323	Printing and Related Support Activities	n	n
812	Personal and Laundry Services	n	n

51-6031 Sewing Machine Operators



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: none | none | Short OJT

2017 Average Wage:	\$14.41
2016 Estimated Employment:	535
2026 Projected Employment:	491
Growth Rate, 2016-2026:	-8.2%
Annual Openings:	50

Industry		2016 Share	2026 Share
315	Apparel Manufacturing	48.0%	46.8%
314	Textile Product Mills	18.7%	17.7%
	Self-employed Workers	8.6%	7.7%
323	Printing and Related Support Activities	7.1%	7.3%
339	Miscellaneous Manufacturing	n	n
5613	Employment Services	n	n

51-6041 Shoe and Leather Workers and Repairers



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
316	Leather and Allied Product Manufacturing	n	n
448	Clothing and Clothing Accessories Stores	n	n

51-6051 Sewers, Hand



Sew, join, reinforce, or finish, usually with a needle and thread, a variety of manufactured items. Includes weavers and stitchers. *Examples: Hand Quilter, Hand Stitcher*

Training Category: none | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
314	Textile Product Mills	n	n
812	Personal and Laundry Services	n	n

51-6052 Tailors, Dressmakers, and Custom Sewers



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

Training Category: none | none | Moderate OJT

2017 Average Wage:	\$17.61
2016 Estimated Employment:	113
2026 Projected Employment:	105
Growth Rate, 2016-2026:	-7.1%
Annual Openings:	13

Industry	2016 Share	2026 Share
Self-employed Workers	48.7%	46.7%
811 Repair and Maintenance	10.6%	11.4%
812 Personal and Laundry Services	6.2%	6.7%
315 Apparel Manufacturing	n	n
323 Printing and Related Support Activities	n	n
448 Clothing and Clothing Accessories Stores	n	n

51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders



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: High School | none | Short OJT

2017 Average Wage:	\$16.07
2016 Estimated Employment:	83
2026 Projected Employment:	80
Growth Rate, 2016-2026:	-3.6%
Annual Openings:	9

Industry	2016 Share	2026 Share
313 Textile Mills	91.6%	91.3%
Self-employed Workers	n	n
5613 Employment Services	n	n

51-6062 Textile Cutting Machine Setters, Operators, and Tenders



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$15.84
2016 Estimated Employment:	93
2026 Projected Employment:	87
Growth Rate, 2016-2026:	-6.5%
Annual Openings:	11

Industry	2016 Share	2026 Share
313 Textile Mills	48.4%	50.6%
315 Apparel Manufacturing	38.7%	37.9%
314 Textile Product Mills	12.9%	11.5%

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



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: High School | none | Short OJT

2017 Average Wage:	\$15.74
2016 Estimated Employment:	67
2026 Projected Employment:	65
Growth Rate, 2016-2026:	-3.0%
Annual Openings:	8

Industry	2016 Share	2026 Share
313 Textile Mills	97.0%	96.9%
Self-employed Workers	3.0%	3.1%

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$13.99
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
313	Textile Mills	n	n
314	Textile Product Mills	n	n

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$17.53
2016 Estimated Employment:	156
2026 Projected Employment:	150
Growth Rate, 2016-2026:	-3.9%
Annual Openings:	17

Industry		2016 Share	2026 Share
313	Textile Mills	96.2%	96.7%
	Self-employed Workers	3.9%	3.3%

51-6092 Fabric and Apparel Patternmakers 

Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	n	n
314	Textile Product Mills	n	n
315	Apparel Manufacturing	n	n

51-6093 Upholsterers 

Make, repair, or replace upholstery for household furniture or transportation vehicles. *Examples: Furniture Upholsterer*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$21.46
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
485	Transit and Ground Passenger Transportation	n	n
5613	Employment Services	n	n
6113	Colleges and Universities	n	n
811	Repair and Maintenance	n	n

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



All textile, apparel and furnishings workers not listed separately. *Examples: Feltmaker, Hat Blocking Machine Operator*

Training Category: High School | none | Short OJT

2017 Average Wage:	\$14.81
2016 Estimated Employment:	46
2026 Projected Employment:	44
Growth Rate, 2016-2026:	-4.4%
Annual Openings:	5

Industry		2016 Share	2026 Share
313	Textile Mills	69.6%	70.5%
5613	Employment Services	15.2%	15.9%
316	Leather and Allied Product Manufacturing	6.5%	6.8%
	Self-employed Workers	4.4%	2.3%
314	Textile Product Mills	2.2%	2.3%
812	Personal and Laundry Services	2.2%	2.3%

51-7011 Cabinetmakers and Bench Carpenters



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.73
2016 Estimated Employment:	531
2026 Projected Employment:	488
Growth Rate, 2016-2026:	-8.1%
Annual Openings:	48

Industry		2016 Share	2026 Share
337	Furniture and Related Product Manufacturing	67.4%	63.5%
444	Building Material and Garden Supply Stores	10.0%	11.3%
	Self-employed Workers	9.0%	9.4%
321	Wood Product Manufacturing	6.6%	7.0%
236	Construction of Buildings	n	n
238	Specialty Trade Contractors	n	n

51-7021 Furniture Finishers



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: High School | none | Short OJT

2017 Average Wage:	\$19.53
2016 Estimated Employment:	36
2026 Projected Employment:	34
Growth Rate, 2016-2026:	-5.6%
Annual Openings:	3

Industry		2016 Share	2026 Share
442	Furniture and Home Furnishings Stores	33.3%	32.4%
321	Wood Product Manufacturing	22.2%	23.5%
	Self-employed Workers	19.4%	20.6%
337	Furniture and Related Product Manufacturing	16.7%	14.7%
811	Repair and Maintenance	8.3%	8.8%

51-7031 Model Makers, Wood



Construct full-size and scale wooden precision models of products. Includes wood jig builders and loft workers.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
321	Wood Product Manufacturing	n	n

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



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$15.13
2016 Estimated Employment:	246
2026 Projected Employment:	239
Growth Rate, 2016-2026:	-2.9%
Annual Openings:	27

Industry		2016 Share	2026 Share
321	Wood Product Manufacturing	93.5%	93.7%
	Self-employed Workers	n	n
337	Furniture and Related Product Manufacturing	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$15.75
2016 Estimated Employment:	614
2026 Projected Employment:	575
Growth Rate, 2016-2026:	-6.4%
Annual Openings:	60

Industry		2016 Share	2026 Share
321	Wood Product Manufacturing	48.1%	49.9%
337	Furniture and Related Product Manufacturing	20.7%	18.8%
339	Miscellaneous Manufacturing	19.4%	18.8%
326	Plastics and Rubber Products Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n
444	Building Material and Garden Supply Stores	n	n

51-7099 Woodworkers, All Other



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
337	Furniture and Related Product Manufacturing	n	n
5613	Employment Services	n	n

51-8011 Nuclear Power Reactor Operators



Control nuclear reactors. *Examples: Nuclear Control Room Operator; Nuclear Reactor Operator*

Training Category: High School | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
221	Utilities	100.0%	100.0%

51-8012 Power Distributors and Dispatchers



Coordinate, regulate, or distribute electricity or steam.

Training Category: High School | none | Long OJT

2017 Average Wage:	\$43.94
2016 Estimated Employment:	52
2026 Projected Employment:	54
Growth Rate, 2016-2026:	3.9%
Annual Openings:	4

Industry		2016 Share	2026 Share
551	Management of Companies and Enterprises	100.0%	100.0%

51-8013 Power Plant Operators



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

Training Category: High School | none | Long OJT

2017 Average Wage:	\$29.23
2016 Estimated Employment:	163
2026 Projected Employment:	163
Growth Rate, 2016-2026:	0.0%
Annual Openings:	14

Industry		2016 Share	2026 Share
221	Utilities	100.0%	100.0%

51-8021 Stationary Engineers and Boiler Operators



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.

Training Category: High School | none | Long OJT

2017 Average Wage:	\$27.84
2016 Estimated Employment:	121
2026 Projected Employment:	126
Growth Rate, 2016-2026:	4.1%
Annual Openings:	13

Industry		2016 Share	2026 Share
622	Hospitals	22.3%	22.2%
6113	Colleges and Universities	17.4%	17.5%
221	Utilities	n	n
312	Beverage and Tobacco Product Manufacturing	n	n
313	Textile Mills	n	n
6111	Elementary and Secondary Schools	n	n

51-8031 Water and Wastewater Treatment Plant and System Operators



Operate or control an entire process or system of machines to transfer or treat water or wastewater. Examples: Liquid Waste Treatment Plant Operator; Sewage Plant Operator

Training Category: High School | none | Long OJT

2017 Average Wage:	\$25.27
2016 Estimated Employment:	379
2026 Projected Employment:	362
Growth Rate, 2016-2026:	-4.5%
Annual Openings:	29

Industry		2016 Share	2026 Share
	Local Government, Excluding Education	81.3%	80.7%
221	Utilities	10.0%	10.8%
	State Government, excl. Education and Hospitals	3.4%	3.3%
336	Transportation Equipment Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n
6113	Colleges and Universities	n	n

51-8091 Chemical Plant and System Operators



Control or operate entire chemical processes or system of machines. *Examples: Nitric Acid Plant Operator; Pharmaceutical Manufacturing Machine Operator*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
325 Chemical Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
562 Waste Management and Remediation Services	n	n

51-8092 Gas Plant Operators



Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines. *Examples: Gas Controller, Gas Plant Dispatcher*

Training Category: High School | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
221 Utilities	100.0%	100.0%

51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers



Control the operation of petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	n	n
Federal Government, Excluding Post Office	n	n

51-8099 Plant and System Operators, All Other



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$27.35
2016 Estimated Employment:	58
2026 Projected Employment:	62
Growth Rate, 2016-2026:	6.9%
Annual Openings:	5

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	8.6%	8.1%
212 Mining (except Oil and Gas)	n	n
324 Petroleum and Coal Products Manufacturing	n	n
327 Nonmetallic Mineral Product Manufacturing	n	n
551 Management of Companies and Enterprises	n	n

51-9011 Chemical Equipment Operators and Tenders 

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: High School | none | Moderate OJT

2017 Average Wage:	\$20.42
2016 Estimated Employment:	309
2026 Projected Employment:	330
Growth Rate, 2016-2026:	6.8%
Annual Openings:	36

Industry	2016 Share	2026 Share
325 Chemical Manufacturing	49.5%	53.6%
313 Textile Mills	n	n
332 Fabricated Metal Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
5413 Architectural and Engineering Services	n	n

51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators/Tenders 

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: High School | none | Moderate OJT

2017 Average Wage:	\$23.63
2016 Estimated Employment:	273
2026 Projected Employment:	297
Growth Rate, 2016-2026:	8.8%
Annual Openings:	32

Industry	2016 Share	2026 Share
312 Beverage and Tobacco Product Manufacturing	44.0%	42.8%
212 Mining (except Oil and Gas)	n	n
311 Food Manufacturing	n	n
325 Chemical Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
722 Food Services and Drinking Places	n	n

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

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: High School | none | Moderate OJT

2017 Average Wage:	\$18.62
2016 Estimated Employment:	201
2026 Projected Employment:	204
Growth Rate, 2016-2026:	1.5%
Annual Openings:	22

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	29.4%	28.9%
212 Mining (except Oil and Gas)	n	n
237 Heavy and Civil Engineering Construction	n	n
423 Merchant Wholesalers, Durable Goods	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5413 Architectural and Engineering Services	n	n

51-9022 Grinding and Polishing Workers, Hand 

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: none | none | Moderate OJT

2017 Average Wage:	\$15.15
2016 Estimated Employment:	209
2026 Projected Employment:	163
Growth Rate, 2016-2026:	-22.0%
Annual Openings:	16

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5613 Employment Services	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$19.83
2016 Estimated Employment:	322
2026 Projected Employment:	327
Growth Rate, 2016-2026:	1.6%
Annual Openings:	36

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	18.0%	19.0%
325 Chemical Manufacturing	14.3%	16.2%
322 Paper Manufacturing	13.4%	9.8%
332 Fabricated Metal Product Manufacturing	12.7%	12.5%
5417 Scientific Research and Development Services	10.3%	11.6%
326 Plastics and Rubber Products Manufacturing	9.6%	8.9%

51-9031 Cutters and Trimmers, Hand



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: none | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
315 Apparel Manufacturing	n	n
326 Plastics and Rubber Products Manufacturing	n	n
337 Furniture and Related Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$18.68
2016 Estimated Employment:	281
2026 Projected Employment:	275
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	30

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	31.3%	33.8%
326 Plastics and Rubber Products Manufacturing	29.2%	27.6%
238 Specialty Trade Contractors	n	n
322 Paper Manufacturing	n	n
323 Printing and Related Support Activities	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$16.52
2016 Estimated Employment:	581
2026 Projected Employment:	559
Growth Rate, 2016-2026:	-3.8%
Annual Openings:	66

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	44.2%	42.0%
326 Plastics and Rubber Products Manufacturing	27.0%	25.6%
336 Transportation Equipment Manufacturing	12.1%	14.1%
327 Nonmetallic Mineral Product Manufacturing	8.4%	9.1%
321 Wood Product Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$21.04
2016 Estimated Employment:	48
2026 Projected Employment:	49
Growth Rate, 2016-2026:	2.1%
Annual Openings:	5

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
212 Mining (except Oil and Gas)	n	n
313 Textile Mills	n	n
321 Wood Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
562 Waste Management and Remediation Services	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$20.83
2016 Estimated Employment:	3,440
2026 Projected Employment:	2,919
Growth Rate, 2016-2026:	-15.2%
Annual Openings:	323

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	21.0%	19.9%
334 Computer and Electronic Product Manufacturing	16.9%	14.7%
335 Electrical Equipment and Appliance Manufacturing	7.6%	7.2%
326 Plastics and Rubber Products Manufacturing	5.8%	5.2%
333 Machinery Manufacturing	5.4%	5.4%
5613 Employment Services	5.0%	5.1%

51-9071 Jewelers and Precious Stone and Metal Workers



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

Training Category: High School | none | Long OJT

2017 Average Wage:	\$20.01
2016 Estimated Employment:	121
2026 Projected Employment:	111
Growth Rate, 2016-2026:	-8.3%
Annual Openings:	11

Industry	2016 Share	2026 Share
448 Clothing and Clothing Accessories Stores	41.3%	45.1%
Self-employed Workers	27.3%	27.9%
339 Miscellaneous Manufacturing	19.8%	14.4%
453 Miscellaneous Store Retailers	n	n
811 Repair and Maintenance	n	n

51-9081 Dental Laboratory Technicians



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$22.07
2016 Estimated Employment:	120
2026 Projected Employment:	128
Growth Rate, 2016-2026:	6.7%
Annual Openings:	14

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	80.8%	78.9%
621 Ambulatory Health Care Services	17.5%	19.5%
Self-employed Workers	1.7%	1.6%

51-9082 Medical Appliance Technicians



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: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
339	Miscellaneous Manufacturing	n	n
621	Ambulatory Health Care Services	n	n

51-9083 Ophthalmic Laboratory Technicians



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: High School | none | Moderate OJT

2017 Average Wage:	\$15.79
2016 Estimated Employment:	167
2026 Projected Employment:	180
Growth Rate, 2016-2026:	7.8%
Annual Openings:	21

Industry		2016 Share	2026 Share
446	Health and Personal Care Stores	29.3%	32.2%
621	Ambulatory Health Care Services	14.4%	15.6%
	Self-employed Workers	1.8%	1.7%
333	Machinery Manufacturing	n	n
339	Miscellaneous Manufacturing	n	n
5613	Employment Services	n	n

51-9111 Packaging and Filling Machine Operators and Tenders



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.28
2016 Estimated Employment:	1,185
2026 Projected Employment:	1,259
Growth Rate, 2016-2026:	6.2%
Annual Openings:	146

Industry		2016 Share	2026 Share
312	Beverage and Tobacco Product Manufacturing	19.7%	19.8%
551	Management of Companies and Enterprises	17.1%	17.6%
5619	Other Support Services	13.3%	13.5%
5613	Employment Services	7.5%	7.7%
332	Fabricated Metal Product Manufacturing	6.4%	6.0%
311	Food Manufacturing	6.3%	6.2%

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.76
2016 Estimated Employment:	502
2026 Projected Employment:	494
Growth Rate, 2016-2026:	-1.6%
Annual Openings:	50

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	29.7%	30.0%
313	Textile Mills	n	n
326	Plastics and Rubber Products Manufacturing	n	n
327	Nonmetallic Mineral Product Manufacturing	n	n
331	Primary Metal Manufacturing	n	n
337	Furniture and Related Product Manufacturing	n	n

51-9122 Painters, Transportation Equipment



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: High School | none | Moderate OJT

2017 Average Wage:	\$18.19
2016 Estimated Employment:	69
2026 Projected Employment:	74
Growth Rate, 2016-2026:	7.3%
Annual Openings:	7

Industry	2016 Share	2026 Share
811 Repair and Maintenance	85.5%	85.1%
423 Merchant Wholesalers, Durable Goods	7.3%	8.1%
Self-employed Workers	4.4%	4.1%
441 Motor Vehicle and Parts Dealers	2.9%	2.7%

51-9123 Painting, Coating, and Decorating Workers



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: none | none | Moderate OJT

2017 Average Wage:	\$23.89
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
337 Furniture and Related Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5418 Advertising, Public Relations, and Related Services	n	n

51-9141 Semiconductor Processors



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: High School | none | Moderate OJT

2017 Average Wage:	\$22.44
2016 Estimated Employment:	64
2026 Projected Employment:	60
Growth Rate, 2016-2026:	-6.3%
Annual Openings:	6

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	96.9%	96.7%
Self-employed Workers	3.1%	3.3%

51-9151 Photographic Process Workers and Processing Machine Operators



Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints. *Examples: Digital Photo Printer; Photo Lab Specialist; Photo Retoucher*

Training Category: High School | none | Short OJT

2017 Average Wage:	\$13.34
2016 Estimated Employment:	128
2026 Projected Employment:	106
Growth Rate, 2016-2026:	-17.2%
Annual Openings:	16

Industry	2016 Share	2026 Share
446 Health and Personal Care Stores	35.2%	33.0%
452 General Merchandise Stores	21.1%	21.7%
531 Real Estate	21.1%	23.6%
5419 Other Professional, Scientific, and Technical Services	7.0%	1.9%
512 Motion Picture and Sound Recording Industries	6.3%	9.4%
812 Personal and Laundry Services	4.7%	4.7%

51-9191 Adhesive Bonding Machine Operators and Tenders



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: High School | none | Moderate OJT

2017 Average Wage:	\$17.21
2016 Estimated Employment:	95
2026 Projected Employment:	93
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	10

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	n	n
332 Fabricated Metal Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

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



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: High School | none | Moderate OJT

2017 Average Wage:	\$16.60
2016 Estimated Employment:	156
2026 Projected Employment:	155
Growth Rate, 2016-2026:	-0.6%
Annual Openings:	20

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	84.6%	85.2%
323 Printing and Related Support Activities	n	n
331 Primary Metal Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
5613 Employment Services	n	n

51-9193 Cooling and Freezing Equipment Operators and Tenders



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. *Example: Refrigerating Machine Operator*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$22.01
2016 Estimated Employment:	93
2026 Projected Employment:	93
Growth Rate, 2016-2026:	0.0%
Annual Openings:	11

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	69.9%	68.8%
311 Food Manufacturing	24.7%	25.8%
Self-employed Workers	2.2%	2.2%
312 Beverage and Tobacco Product Manufacturing	n	n
5417 Scientific Research and Development Services	n	n

51-9194 Etchers and Engravers



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: High School | none | Moderate OJT

2017 Average Wage:	\$14.61
2016 Estimated Employment:	108
2026 Projected Employment:	108
Growth Rate, 2016-2026:	0.0%
Annual Openings:	13

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	44.4%	46.3%
339 Miscellaneous Manufacturing	15.7%	12.0%
323 Printing and Related Support Activities	13.9%	13.0%
Self-employed Workers	9.3%	9.3%
332 Fabricated Metal Product Manufacturing	n	n
454 Nonstore Retailers	n	n

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

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: High School | none | Long OJT

2017 Average Wage:	\$15.85
2016 Estimated Employment:	341
2026 Projected Employment:	358
Growth Rate, 2016-2026:	5.0%
Annual Openings:	37

Industry		2016 Share	2026 Share
327	Nonmetallic Mineral Product Manufacturing	35.5%	36.3%
326	Plastics and Rubber Products Manufacturing	16.1%	14.3%
	Self-employed Workers	7.3%	6.4%
551	Management of Companies and Enterprises	n	n
5613	Employment Services	n	n

51-9196 Paper Goods Machine Setters, Operators, and Tenders 

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: High School | none | Moderate OJT

2017 Average Wage:	\$23.89
2016 Estimated Employment:	189
2026 Projected Employment:	158
Growth Rate, 2016-2026:	-16.4%
Annual Openings:	14

Industry		2016 Share	2026 Share
322	Paper Manufacturing	86.2%	82.3%
323	Printing and Related Support Activities	n	n
5613	Employment Services	n	n

51-9197 Tire Builders 

Operate machines to build tires. *Examples: Auto Tire Recapper; Tire Molder*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
326	Plastics and Rubber Products Manufacturing	n	n

51-9198 Helpers--Production Workers 

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: High School | none | Short OJT

2017 Average Wage:	\$14.12
2016 Estimated Employment:	1,962
2026 Projected Employment:	2,377
Growth Rate, 2016-2026:	21.2%
Annual Openings:	365

Industry		2016 Share	2026 Share
5613	Employment Services	55.7%	64.2%
335	Electrical Equipment and Appliance Manufacturing	9.4%	7.9%
313	Textile Mills	6.2%	4.9%
332	Fabricated Metal Product Manufacturing	5.3%	4.4%
334	Computer and Electronic Product Manufacturing	3.6%	2.7%
326	Plastics and Rubber Products Manufacturing	3.1%	2.4%

51-9199 Production Workers, All Other



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

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$14.52
2016 Estimated Employment:	1,469
2026 Projected Employment:	1,548
Growth Rate, 2016-2026:	5.4%
Annual Openings:	177

Industry	2016 Share	2026 Share
5613 Employment Services	53.4%	55.9%
339 Miscellaneous Manufacturing	10.3%	8.9%
334 Computer and Electronic Product Manufacturing	5.9%	5.2%
332 Fabricated Metal Product Manufacturing	3.3%	3.2%
331 Primary Metal Manufacturing	3.3%	2.8%
335 Electrical Equipment and Appliance Manufacturing	3.2%	3.1%

53-1011 Aircraft Cargo Handling Supervisors



Direct ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage. Determine the quantity and orientation of cargo and compute aircraft center of gravity. May accompany aircraft as member of flight crew and monitor and handle cargo in flight, and assist and brief passengers on safety and emergency procedures. Include loadmasters.

Training Category: High School | < 5 yrs | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
488 Support Activities for Transportation	n	n
492 Couriers and Messengers	n	n
811 Repair and Maintenance	n	n

53-1021 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand



Supervise and coordinate the activities of helpers, laborers, or material movers. *Examples: Cargo Supervisor; Yard Supervisor; Warehouse Supervisor*

Training Category: High School | < 5 yrs | none

2017 Average Wage:	\$23.44
2016 Estimated Employment:	438
2026 Projected Employment:	483
Growth Rate, 2016-2026:	10.3%
Annual Openings:	51

Industry	2016 Share	2026 Share
Local Government, Excluding Education	11.9%	11.4%
492 Couriers and Messengers	11.4%	10.8%
493 Warehousing and Storage	11.2%	12.8%
444 Building Material and Garden Supply Stores	10.1%	9.9%
811 Repair and Maintenance	9.1%	9.3%
532 Rental and Leasing Services	8.9%	8.3%

53-1031 First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators



Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers. *Examples: Dockmaster; Gas Station Manager; Roadmaster*

Training Category: High School | < 5 yrs | none

2017 Average Wage:	\$30.05
2016 Estimated Employment:	643
2026 Projected Employment:	702
Growth Rate, 2016-2026:	9.2%
Annual Openings:	74

Industry	2016 Share	2026 Share
485 Transit and Ground Passenger Transportation	16.0%	16.4%
492 Couriers and Messengers	10.9%	10.4%
424 Merchant Wholesalers, Nondurable Goods	10.0%	10.0%
484 Truck Transportation	8.9%	8.8%
812 Personal and Laundry Services	5.4%	6.4%
454 Nonstore Retailers	4.7%	3.9%