

Manufacturing, Installation, and Repair

Cluster Definition

- Are you good with working with your hands?
- Can you explain to others how a machine works?
- Do you set up and repair stereo equipment for yourself or friends?
- Do you enjoy reading the latest developments in electronics?
- Can you visualize how a machine works?

If you answered yes to two or more of the questions above, you might be interested in considering a career in manufacturing, installation, or repair.

In the Manufacturing, Installation, and Repair career cluster, you can choose one of several options. You might design a new product or determine how the product will be made. Another option is to make the product. The final option is to install and repair the product once it has been purchased.



Related High School Electives

Accounting
Algebra II
Appliance Repair
Applied Math
Automotive Mechanics
Blueprint Reading
Business
Business Law
Computer Applications
Computer Programming

Diesel Mechanics
Electronics
Geometry
Industrial Technology
Machining
Manufacturing Systems
Metalworking
Physics
Pre-Calculus
Precision Metalworking

Principles of Technology
Technical Writing
Trigonometry
Welding

[Airplane Assemblers](#)
[Appliance Installers/ Repairers](#)
[Building Maintenance Workers](#)
[Chemical Engineers](#)
[Chemical Equipment Operators](#)
[Vending Machine Repairers](#)
[Computer, ATM, and Office Machine Repairers](#)
[Crane and Tower Operators](#)
[Electric Motor Repairers](#)
[Forklift Operators](#)
[Furniture Finishers](#)
[Gas and Oil Plant Operators](#)
[Glass Blowers](#)
[Home Electronic Repairers](#)
[Industrial Electronics Repairers](#)
[Industrial Machinery Mechanics](#)
[Jewelers](#)
[Locksmiths](#)
[Machinists](#)
[Millwrights](#)
[Numerical Control Machine Operators/Tool Programmers](#)
[Heavy Equipment Operators](#)
[Ophthalmic Lab Technicians](#)
[Packers and Packagers](#)
[Painting and Coating Machine Operators](#)
[Power Plant Operators](#)
[Precision Assemblers](#)
[Production & Planning Clerks](#)
[Production Helpers](#)
[Pump Operators](#)
[Quality Control Inspectors](#)
[Roustabouts](#)
[Security and Fire Alarm Systems Installers](#)
[Small Engine Mechanics](#)
[Stationary Engineers](#)
[Tailors](#)
[Tool and Die Makers](#)
[Tool Grinders](#)
[Upholsterers](#)
[Vehicle Painters](#)
[Watch Repairers](#)
[Welders and Solderers](#)
[Wind Turbine Technicians](#)
[Woodworking Machine Operators](#)

Level of Education and Earnings

Short-Term On-the-Job Training (Less than One Month)

	State Annual Median Wage		State Annual Median Wage
Clothes Pressers	\$21,265	Packaging/Filling Machine Operator	\$25,831
Forklift Operators	\$33,085	Packers and Packagers	\$20,342
Material Moving Machine Operators	\$28,409 - \$50,384	Precision Assemblers	\$29,144 - \$33,492
Mechanic and Repairer Helpers	\$24,352	Production Helpers	\$24,267 - \$26,594

Moderate-Term On-the-Job Training (One to Twelve Months)

Airplane Assemblers	No state data	Precision Assemblers	\$29,144 - \$33,492
Building Maintenance Workers	\$38,430	Production and Planning Clerks	\$44,203
Chemical Equipment Operators	\$48,007	Pump Operators	\$29,782 - \$36,247
Coin/Vending Machine Repairers	\$34,528	Quality Control Inspectors	\$40,559
Gas and Oil Drillers	No state data	Roustabouts	No state data
Glass Blowers	\$25,329	Sawing Machine Operators	\$35,602
Hoist and Winch Operators	\$75,906	Sewing Machine Operators	\$24,949
Locksmiths	\$35,681	Small Engine Mechanics	\$32,844
Material Moving Machine Operators	\$28,409 - \$50,384	Textile Machine Operators	\$24,140 - \$34,171
Metal & Plastic Processing Workers	\$26,282 - \$43,874	Tire Building Machine Operators	\$26,036
Numerical Control Machine Operators	\$43,815	Tool Grinders	\$42,654
Construction Equipment Operators	\$54,132	Vehicle Painters	\$44,372
Ophthalmic Laboratory Technicians	\$32,076	Woodworking Machine Operators	\$31,522
Painting/Coating Machine Operators	\$29,832		

Long-Term On-the-Job Training (Over One Year)

Airplane Installers and Repairers	\$38,076	Power Plant Operators	\$70,412 - \$78,636
Chemical Plant Operators	\$50,089	Shoe and Leather Workers	\$24,459
Crane and Tower Operators	\$64,979	Stationary Engineers	\$52,636
Furniture Finishers	\$31,399	Tailors	\$28,621
Gas and Oil Plant Operators	\$50,332 - \$61,122	Textile Machine Operators	\$24,140 - \$34,171
Industrial Machinery Mechanics	\$51,443	Tool and Die Makers	\$58,623
Machinists	\$45,919	Upholsterers	\$32,655
Millwrights	\$52,923	Watch Repairers	\$48,156

Work Experience in a Related Occupation

Blue Collar Worker Supervisors	\$46,695 - \$69,508	Numeric Control Tool Programmers	\$68,448
Industrial Production Managers	\$95,672	Wind Turbine Technicians	No state data

Associate Degree

Semiconductor Processing Operators	\$33,863
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Bachelor's Degree

Chemical Engineers	\$94,599
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