



WAGE DATA

Rate Type / Statistical Type	Entry level	Mean	Experienced
Annual wage or salary	\$32,415	\$45,377	\$52,878
Hourly wage	\$14.21	\$21.74	\$27.13

JOB DESCRIPTION

Lubricate machinery, change parts, or perform routine maintenance.

DUTIES

- Reassemble machines after the completion of repair or maintenance work.
- Start machines and observe mechanical operation to determine efficiency and to detect problems.
- Inspect or test damaged machine parts and mark defective areas or advise supervisors of repair needs.
- Lubricate or apply adhesives or other materials to machines, machine parts, or other equipment according to specified procedures.
- Install, replace, or change machine parts and attachments according to production specifications.
- Dismantle machines and remove parts for repair, using hand tools, chain falls, jacks, cranes, or hoists.
- Record production, repair, and machine maintenance information.
- Read work orders and specifications to determine machines and equipment requiring repair or maintenance.
- Set up and operate machines and adjust controls to regulate operations.
- Collaborate with other workers to repair or move machines, machine parts, or equipment.

TOOLS and TECHNOLOGY

Tools used in this occupation:

- Abrasive stones** — Abrasive rubbing stones
- Band saw wheel** — Band saws
- Calipers** — Dial calipers, Vernier calipers
- Dial indicator or dial gauge** — Dial indicators
- Hacksaw** — Hacksaws, Power hacksaws
- Power buffers** — Buffing machines, Polishing machines
- Power saws** — Bench saws, Cutoff saws

Technology used in this occupation:

- Database user interface and query software** — Database software
- Spreadsheet software**
- Word processing software**

KNOWLEDGE

Mechanical — Knowledge of machines and tools including their designs, uses, repair, and maintenance.

Mathematics — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Design — Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Engineering and Technology — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

English Language — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Building and Construction — Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.

SKILLS

Equipment Maintenance — Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.

Operation Monitoring — Watching gauges, dials, or other indicators to make sure a machine is working properly.

Repairing — Repairing machines or systems using the needed tools.

Troubleshooting — Determining causes of operating errors and deciding what to do about it.

Operation and Control — Controlling operations of equipment or systems.

Quality Control Analysis — Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

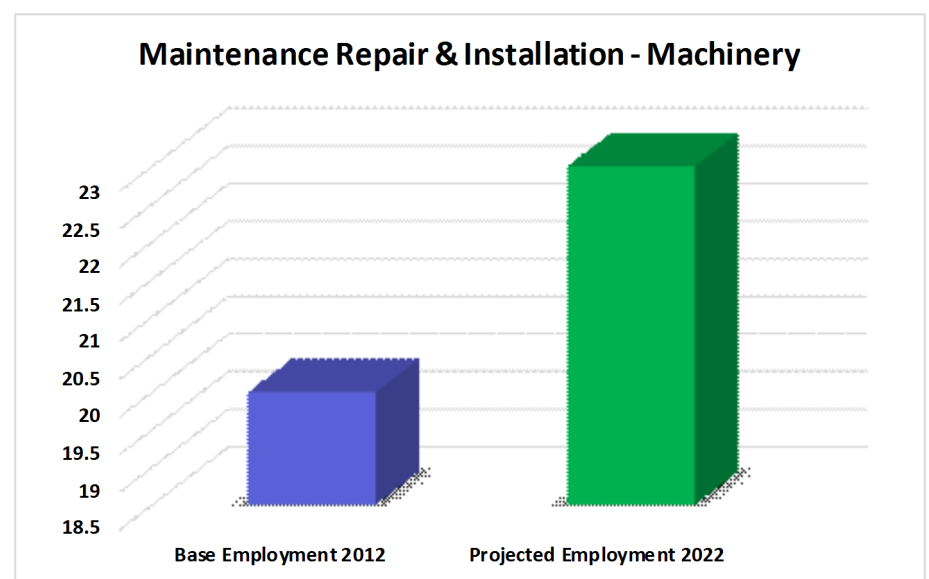
Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Equipment Selection — Determining the kind of tools and equipment needed.

Active Listening — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Complex Problem Solving — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

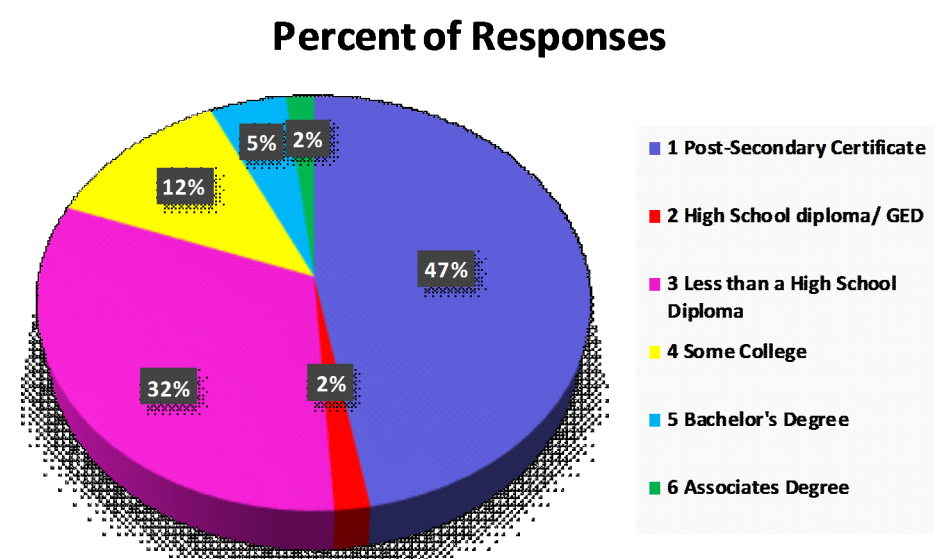
EMPLOYMENT PROJECTION



This information is based on LMI Gateway Data

EDUCATION

The graph below shows the results of a national survey listing the most common required level of education for Maintenance Repair & Installation - Machinery.



EDUCATION FOR THIS JOB

- 2014 Catalogue of Colorado Advanced Manufacturing Program and Skill Resources
<http://www.coloradomanufacturingcareers.com/>
- Approved Colorado Community College Manufacturing Cluster education programs
<http://www.coloradocommunitycolleges.com/go/programs/skilled-trades-technical-sciences/>
<http://www.coloradocommunitycolleges.com/go/>
- Colorado Four Year Colleges and Universities
<http://higher.ed.colorado.gov/academics/colleges/public4year.asp>
- Locations to Get Manufacturing Certificates
<http://www.coloradomanufacturingcareers.com/>

