



WAGE DATA

Rate Type / Statistical Type	Entry level	Mean	Experienced
Annual wage or salary	\$23,444	\$35,827	\$43,626
Hourly wage	\$11.46	\$17.22	\$21.66

JOB DESCRIPTION

Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients.

DUTIES

- Weigh or measure materials, ingredients, or products to ensure conformance to requirements.
- Test samples of materials or products to ensure compliance with specifications, using test equipment.
- Start machines to mix or blend ingredients; then allow them to mix for specified times.
- Operate or tend machines to mix or blend any of a wide variety of materials, such as spices, dough batter, tobacco, fruit juices, chemicals, livestock feed, food products, color pigments, or explosive ingredients.
- Dump or pour specified amounts of materials into machinery or equipment.
- Observe production or monitor equipment to ensure safe and efficient operation.
- Stop mixing or blending machines when specified product qualities are obtained and open valves and start pumps to transfer mixtures.
- Collect samples of materials or products for laboratory testing.
- Add or mix chemicals or ingredients for processing, using hand tools or other devices.
- Examine materials, ingredients, or products visually or with hands to ensure conformance to established standards.

TOOLS and TECHNOLOGY

Tools used in this occupation:

Bench scales — Gram scales

Hammers — Claw hammers

Masks or accessories — Safety masks

Remote reading thermometers — Remote reading electronic thermometers

Track cranes — Overhead cranes

Viscosimeters — Viscosity meters

Technology used in this occupation:

Data base user interface and query software — Data entry software

Electronic mail software — Email software

Spreadsheet software

Word processing software

KNOWLEDGE

Production and Processing — Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.

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

Education and Training — Knowledge of principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.

Chemistry — Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.

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

SKILLS

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

Operation and Control — Controlling operations of equipment or systems.
Monitoring — Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents.

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.

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

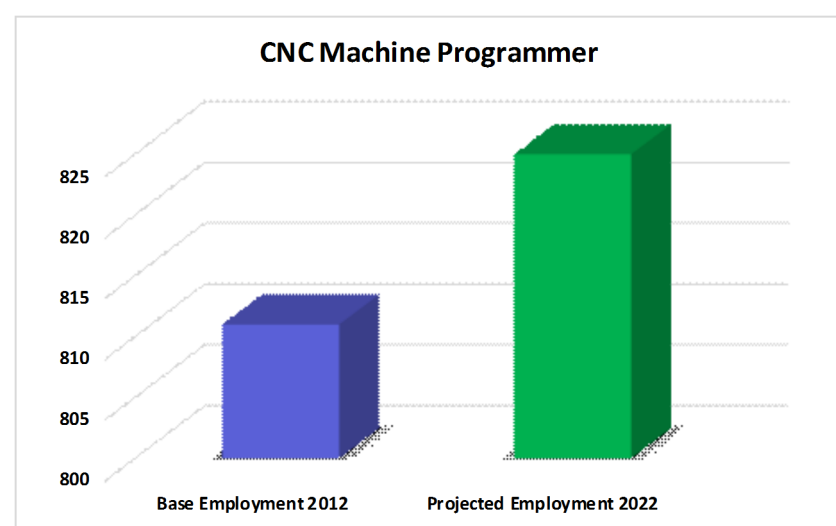
Complex Problem Solving — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Speaking — Talking to others to convey information effectively.

Writing — Communicating effectively in writing as appropriate for the needs of the audience.

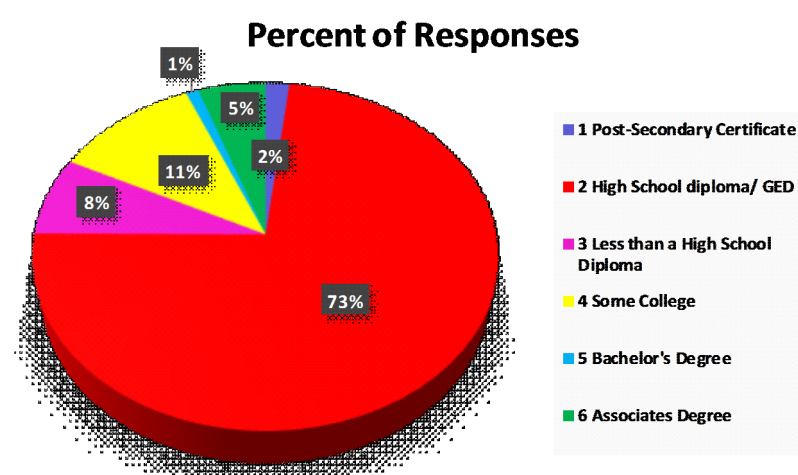
EMPLOYMENT PROJECTION



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 Industry CNC Machine Programmer.



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/>

