

Looking for Career Opportunities in Metalforming?

Did You Know...

- Entry level toolmakers can average more than \$32,000 a year during a four-year training program.
- Experienced precision metalworkers' average earnings range from \$40,000 to \$78,000 annually.
- The industry has thousands of unfilled, high-paying, secure jobs that do not require a four-year degree.
- Computers and high technology are common in today's manufacturing environment.
- Associate degrees and skills certifications provide a practical basis for an engineering or business degree.
- Many companies offer career pathways and opportunities that can lead to advancement in skills, responsibilities and pay.

Salary data based on 50-hour work week and can vary approx. \pm 35% based on location and skill level.
Sources: U.S. Bureau of Labor Statistics
Precision Metalforming Association 2013 Wage and Benefit Report

Sample Educational Ladder

Middle School
Math, Science & Computer Classes, Career Exploration, Shadowing, Plant Tours, Industry Visits to School

High School-traditional	High School-technical	Home Schooling & other High School Equivalents
Math, Science & Computer Classes	Math, Science & Computer Classes	Math, Science & Computer Classes
Industrial Arts, if available	Precision Machining or Manufacturing Technology Program <ul style="list-style-type: none"> • Skill Training Jr. & Sr. years • School-to-Work Partnership 	Complete requirements for high school diploma or GED
Job Shadowing	Job Shadowing	Full or part-time work in manufacturing
Summer Internships	Summer Internships	Job Shadowing

Post high-school and re-careering adults:

Employment/ In-House Training	Apprenticeship	Career Center	Community College
Full-time work	2-4 yr. program (approx. 2,000 hours) Evening classes and on-the-job training w/ pay	Learn Trade-Fundamental Skills	Full time classes w/ or w/o outside work
Classes during or outside of work hours	Gain journey level status	Part time work in industry	Part time classes w/ or w/o outside work
Earn NIMS credentials	Earn NIMS credentials	Earn NIMS credentials	Associate Degree

**WHAT JOBS ARE AVAILABLE?
WHAT WOULD I DO?
WHAT IS THE GROWTH POTENTIAL?**

Pre-employment requirements:

- High School diploma
- Introduction to metalforming (preferred)
- Math & computer skills
- Communication skills
- Teamwork skills

Level One

OPERATOR (Hourly Wage)

- Make parts and blanks
- Check parts for quality control
- Trouble shoot minor problems

Level Two

SET-UP TECHNICIAN (Hourly Wage)

- Setup machine, tooling and material for production
- Verify part prints and specifications
- May operate machine
- Trouble shoot and correct process problems

Level Three

QUALITY ASSURANCE (Hourly/Salaried)

- Performs quality checks on incoming and finished parts and materials
- Assess vendor/supplier quality and reliability

SUPERVISOR (Salaried)

- Coordinate production schedules
- Manage operators, work areas, equipment and materials to assure maximum production

MACHINE MAINTENANCE (Hourly)

- Perform electrical, hydraulic/pneumatic and mechanical repairs
- Provide preventive and predictive maintenance on machines
- Install new equipment or accessories (update machines)

Level Three (con't)

TOOL & DIE MAKER (Hourly)

- Build manufacturing tools and dies
- Maintain manufacturing tooling
- Install and set up new dies

TOOL DESIGNER (Hourly)

- Design new tools using CAD systems
- Troubleshoot tool and design problems
- Design and install tool protection systems

COMPUTER NETWORK TECHNICIAN (Salaried)

- Maintain computer network connecting machines, quality and production scheduling
- Evaluate and install new systems

ENGINEERING & RESEARCH (Salaried)

- Design dies for production
- Supervise Tool & Design Dept.
- Develop and test prototypes using computer simulation