

Welders, Cutters and Welder Fitters

About my job:

As a welder, cutter and solderer I weld or join metal parts. I also use my skills to fill holes, indentations, or seams of metal products, using hand-held metal joining equipment.



Job growth:

Employment of welders, cutters, solderers and brazers is projected to grow 6 percent from 2012 to 2022.

Short-term training:

Training to be a welder ranges from a few weeks of technical school or on-the-job training to several years of combined technical school and on-the-job training.

Good pay:

The median salary is \$36,200 per year. (That means that 50 percent of welders earn less than this number, and the other 50 percent earn more.)

Benefits:

Most welders work full time with benefits that may include:

- Paid vacation
- Healthcare
- Tuition reimbursement

What I do every day:

- · Weld components in a variety of positions
- · Operate safety equipment and demonstrate safe work habits
- Position and secure parts and assemblies before assembly, using straightedges, combination squares, calipers and rulers
- Examine workpieces for defects and ensure conformance with specifications
- Operate hand and power tools including shielded metal arc and gas metal arc welding equipment
- Weld alloys including aluminum, stainless steel, cast iron and others
- Clamp, hold, tack-weld, heat-bend, grind or bolt component parts to obtain positions for welding
- · Install torches, torch tips, filler rods and flux
- Read blueprints
- Identify and repair defects

How can you become a welder?



Academic/training credentials:

A high school diploma is required and American Welder Society (AWS) certification is recommended.

Other credentials:

A high school diploma is the minimum for entry-level jobs, however, there are many certificates that show competence in various types of welding. Obtaining AWS will provide more job opportunities, and earning certificates in multiple types of welding will provide opportunities for advancement.

Work experience/internships:

For entry-level positions, experience is not required. What's more, many employers have on-the-job training programs to train to provide additional welding knowledge.

Skills and requirements:

- Most welders work full time; the ability to work overtime is necessary
- May work evenings, and weekends
- May require physical stamina and strength to stand for long periods and to lift heavy objects
- Ability to work in uncomfortable positions
- Must be detail oriented
- Blueprint reading and interpretation skills

Where you can find jobs:

- Online job boards
- Temporary employment services
- Career fairs
- Social media
- Networking with family, friends and teachers
- Department of Career Services at colleges

Potential job titles:

- Aluminum welder
- Fabrication welder
- Fabricator, fitter/welder
- Maintenance welder
- Mig welder
- Sub arc operator
- Welder-fitter
- Welder/fabricator

Potential local employers:

- Babcock and Wilcox
- Component Repair Technologies
- Fredon Corp
- Lincoln Electric
- Lubrizol
- Steris
- Swagelok



Local educational opportunities

Two-year institutions:

- Lakeland Community College: Associate of Technical Studies degree in industrial welding
 - o FCAW and GMAW (MIG/MAG) welding certificate
 - o GTAW (TIG) Welding Certificate
 - Oxyfuel gas welding and cutting certificate
 - o Pipe welding certificate
 - Stick welding certificate

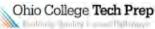
Contact Lakeland Industrial Welding Project Manager at 440.525.7516.

- Cuyahoga Community College: fast track welding certificate
- Auburn Career Center: welding complete course

Four-year institutions:

■ The Ohio State University: Bachelor of Science in welding engineering





High School Tech Prep:

A-TECH: welding program

- Auburn Career Center: welding program
- Lake Shore Compact: welding or production welding program
- Contact your high school guidance office



Coursework per educational entity:

Secondary pathway: Welding

Postsecondary program: Industrial Welding

An Example of Course with Secondary and Postsecondary Credits





How can I grow my career?



For entry-level positions, a high school diploma is required and welding certifications are preferred.

Where could I focus or specialize in my career?

- Production worker
- Finisher and grinder
- Welder
- Certified welding instructor
- Welding supervisor
- Welding shop manager or owner
- Welding engineer

The career ladder

Pre-welding training

Production workerHigh school diploma

 \$29,000-\$32,320 annual salary Certificate program

Welder

 High school diploma and AWS Welding Certification

 \$32,320-\$52,000 annual salary Advanced certification/ associate degree

· Welding supervisor

 Work experience and advanced welding certification or associate degree in industrial welding

 \$47,840-\$62,400 annual salary Four-year welding engineer degree and work experience

• Welding engineer

 Work experience and welding engineering degree

• \$75,000-\$100,000 annual salary

Sources/References:

Ohio Means Jobs, Bureau of Labor Statistics – Occupational Outlook Handbook
O*Net Online-Summary Report, Ohio Labor Market Information

