

WHAT IS A WELDER?

TITLE(s): WELDER

Typical Job Responsibilities:

Lay out, fit, and fabricate metal components to assemble structural forms, such as machinery frames, bridge parts, and pressure vessels, using knowledge of welding techniques, metallurgy, and engineering requirements. Includes experimental welders who analyze engineering drawings and specifications to plan welding operations where procedural information is unavailable.

- Lays out, positions, and secures parts and assemblies according to specifications, using straightedge, combination square, calipers, and ruler.
- Tack-welds or welds components and assemblies, using electric, gas, arc, or other welding equipment.
- Cuts work piece, using powered saws, hand shears, or chipping knife.
- Melts lead bar, wire, or scrap to add lead to joint or to extrude melted scrap into reusable form.
- Installs or repairs equipment, such as lead pipes, valves, floors, and tank linings.
- Observes tests on welded surfaces, such as hydrostatic, x-ray, and dimension tolerance to evaluate weld quality and conformance to specifications.
- Inspects grooves, angles, or gap allowances, using micrometer, caliper, and precision measuring instruments.
- Removes rough spots from work piece, using portable grinder, hand file, or scraper.
- Welds components in flat, vertical, or overhead positions.
- Heats, forms, and dresses metal parts, using hand tools, torch, or arc welding equipment.

Education Requirements: High school diploma with additional on-the-job-training or vocational/technical training.

Recommended Areas of Knowledge:

Mechanical aptitude, design, building and construction, production and processing, mathematics and physics, engineering / manufacturing technology.

Salary/Wage Data:

Location	Pay Period	2003				
		10%	25%	Median	75%	90%
United States	Hourly	\$9.59	\$11.69	\$14.39	\$17.71	\$21.99
	Yearly	\$19,900	\$24,300	\$29,900	\$36,800	\$45,700
Ohio	Hourly	\$10.32	\$12.15	\$14.54	\$17.61	\$23.55
	Yearly	\$21,500	\$25,300	\$30,200	\$36,600	\$49,000

Source: Bureau of Labor Statistics, Occupational Employment Statistics Survey; Ohio Labor Market Information, Onet.



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