

WHAT IS A WELDING ENGINEER?

TITLE(s): WELDING ENGINEER

Typical Job Responsibilities:

Develops welding techniques, procedures, and application of welding equipment to problems involving fabrication of metals, utilizing knowledge of production specifications, properties and characteristics of metals and metal alloys, and engineering principles; Conducts research and development investigations to develop and test new fabrication processes and procedures, improve existing or develop new welding equipment, develop new or modify current welding methods, techniques, and procedures, discover new patterns of welding phenomena, or to correlate and substantiate hypotheses. Prepares technical reports as result of research and development and preventive maintenance investigations. Establishes welding procedures to guide production and welding personnel relating to specification restrictions, material processes, pre- and post-heating requirements which involve use of complex alloys, unusual fabrication methods, welding of critical joints, and complex post heating requirements. Evaluates new developments in welding field for possible application to current welding problems or production processes. Directs and coordinates technical personnel in performing inspections to ensure workers' compliance with established welding procedures, restrictions, and standards; in testing welds for conformance with national code requirements; or testing welding personnel for certification. Contacts personnel of other agencies, engineering personnel, or clients to exchange ideas, information, or offer technical advice concerning welding matters. May perform experimental welding to evaluate new equipment, techniques, and materials.

Educational Requirements: Bachelor's Degree in Welding Engineering

Salary/Wage Data:

Location	Pay Period	2003				
		10%	25%	Median	75%	90%
United States	Hourly	\$19.97	\$24.90	\$31.25	\$39.06	\$46.38
	Yearly	\$41,500	\$51,800	\$65,000	\$81,200	\$96,500
Ohio	Hourly	\$21.13	\$26.20	\$32.90	\$41.09	\$50.56
	Yearly	\$44,000	\$54,500	\$68,400	\$85,500	\$105,200

Source: [Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections](#) (Education/Training Level, Educational Attainment); [National Center for Education Statistics](#) (Typical Instructional Programs), Onet, America's Career InfoNet.



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