

WELDING CAREER PATHWAY



\$37,662	Short-term Certification Pre-Apprenticeship at Community College Credentials/Tech Centers		\$41,580	Completed Apprenticeship/ Extensive on-the-job training	\$46,013	\$48,482	\$52,102	Bachelor's Degree (ABET accredited)
PRODUCTION TECHNICIAN			WELDER 1		MAINTENANCE WELDER	WELD - FITTER	WELDING INSPECTOR QUALITY ASSURANCE	
Job requirements include:	\$47,743	\$47,743	Job requirements include:	\$52,102	Job requirements include:	Job requirements include:	Job requirements include:	\$88,801
Foundational employability skills • Basic math • Basic computer skills • Written and verbal communication skills • Safety awareness • Drug free	WELD OPERATOR	ROBOTIC WELD TECHNICIAN	Basic welding processes (SMAW, SAW, FCAW, GTAW) • Set-up, operate, and maintain welding equipment • Identify electrode or welding wire • Fillet and groove weld plate in designated positions • Weld pipe in the vertical and horizontal positions	WELDER 2	Weld-fitter & welding inspector quality assurance skills • Troubleshoot and correct process errors and equipment issues • Inspect welding staff work product	Maintenance welder & welding inspector quality assurance skills • Layout stock from blueprints, sketches, and templates • Set-up and target piping assemblies	Maintenance welder & weld-fitter skills • Drill, ream, countersink, counter-bore, spot face, tap holes using portable equipment • Oversee destructive and nondestructive testing	WELDING ENGINEER
High School Diploma/GED, some technical training, Manufacturing Foundations Certificate	Job requirements include:	Job requirements include:	Job requirements include: Advanced skill with Basic welding processes (SMAW, SAW, FCAW, GTAW) • Oxy-fuel cutting • Basic rigging and crane signaling • Chip and grind material using handheld tools • Conduct destructive and nondestructive testing	On-the-job training / Associate Degree				Job requirements include:
	Robotic weld technician skills • Operate and care for tools and equipment including: hand tools, measuring devices, and precision instruments; operate grinders, debur stock, rough removal of material	Weld operator skills • Demonstrate use of machine safety and PPE • Inspect materials and parts • Operate welder to specifications of supervisor or team lead	One-Year Technical Certification, Apprenticeship and/or Extensive Work Experience					Knowledge of math, physics, statistic, etc. • Product/ Process Design • Quality Control/ Assurance • Automated systems control • Management skills

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