

# WELDING

2020-2021



**Welding** students become proficient in performing welding processes, reading blueprints and welding symbols, and developing safe work habits. Upon successful completion of the program, students are eligible to apply for skilled trades apprenticeships, weld and fabricate metal, read and interpret blueprints, and operate CNC fabrication equipment. Welding is part of the Advanced Manufacturing Academy. Senior students have the opportunity to engage in advanced-elective course work in any of the manufacturing areas: Computer-Aided Design, Precision Machining, Robotics & Automation, and Welding. This opportunity provides students with a more diverse skill-set to enter a career in manufacturing.

**Program Highlights:**

- Use advanced welding techniques and fabrication equipment to design, engineer and assemble metal components
- Design and fabricate products to solve manufacturing challenges for clients
- Interpret blueprints to meet critical design specifications

**The Program Focuses on the Following State Approved Courses:**

- Welding Technologies
- Gas Metal Arc Welding
- Shielded Metal Arc Welding
- Flux Core Arc Welding



**COST-FREE COLLEGE CREDIT OPPORTUNITIES**

**College Credit Plus through Owens Community College**

- WLD 190: Welding – Blueprint Reading (2 Credit Hours)
- WLD 191: Introduction to Welding Processes (2 Credit Hours)
- WLD 192: SMAW (Flat & Horizontal) (2 Credit Hours)
- WLD 193: SMAW Vertical and Overhead ( 2 Credit Hours)
- WLD 261: Pipe Welding (2 Credit Hours)
- WLD 262: GMAW Welding (2 Credit Hours)
- WLD 264: Welding Plate Pre-Cert and Test (2 Credit Hours)
- WLD 265: Pipe Welding Pre-Cert and Test (2 Credit Hours)
- WLD 266: GTAW Welding (2 Credit Hours)
- WLD 267: Welding Fabrication & Layout (2 Credit Hours)

**INDUSTRY-RECOGNIZED CREDENTIALS (POINT VALUES)**

- Ohio State Apprenticeship Council Recognized Pre-apprenticeship Program Certificate of Completion (12 Points)
- American Welding Society (AWS) – Certified Welder (12 Points)
- OSHA 10-Hour Training (1 Point)

**OHIO MEANS JOBS OCCUPATIONS LISTED ACCORDING TO TYPICAL SALARY**

OCCUPATION TITLE	TYPICAL SALARY-BOTTOM 10%	TYPICAL SALARY-MEDIAN	TYPICAL SALARY-TOP 10%	EDUCATION LEVEL	ANNUAL JOB OPENINGS
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders*	\$28,240	\$38,600	\$55,150	HS Diploma or Equivalent	290
Welders, Cutters and Welder Fitters	\$28,840	\$39,930	\$58,420	HS Diploma or Equivalent	1,970
Sheet Metal Workers	\$30,060	\$56,020	\$77,750	HS Diploma or Equivalent	480
Pipe Fitters and Steamfitters	\$31,690	\$55,280	\$82,140	HS Diploma or Equivalent	2,020
First-Line Supervisors of Production and Operating Workers*	\$38,420	\$60,870	\$96,460	HS Diploma or Equivalent	2,900
Structural Iron and Steel Workers*	\$39,800	\$60,280	\$78,910	HS Diploma or Equivalent	380
Manufacturing Engineers*	\$51,610	\$90,780	\$148,450	Bachelor's Degree	530
Mechanical Engineers*	\$53,060	\$79,520	\$120,230	Bachelor's Degree	1,170
Industrial Production Managers*	\$62,540	\$101,950	\$170,490	Bachelor's Degree	740

**JOB OUTLOOK COMPILED BY OHIO MEANS JOBS AS OF OCTOBER 2020; VISIT OHIOMEANSJOBS.COM FOR MORE INFORMATION.**

\*Denotes an In-Demand Occupation in the State of Ohio

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EDUCATION WITH PURPOSE  
**CAREER TREE**



**TECHNICAL CAREERS**

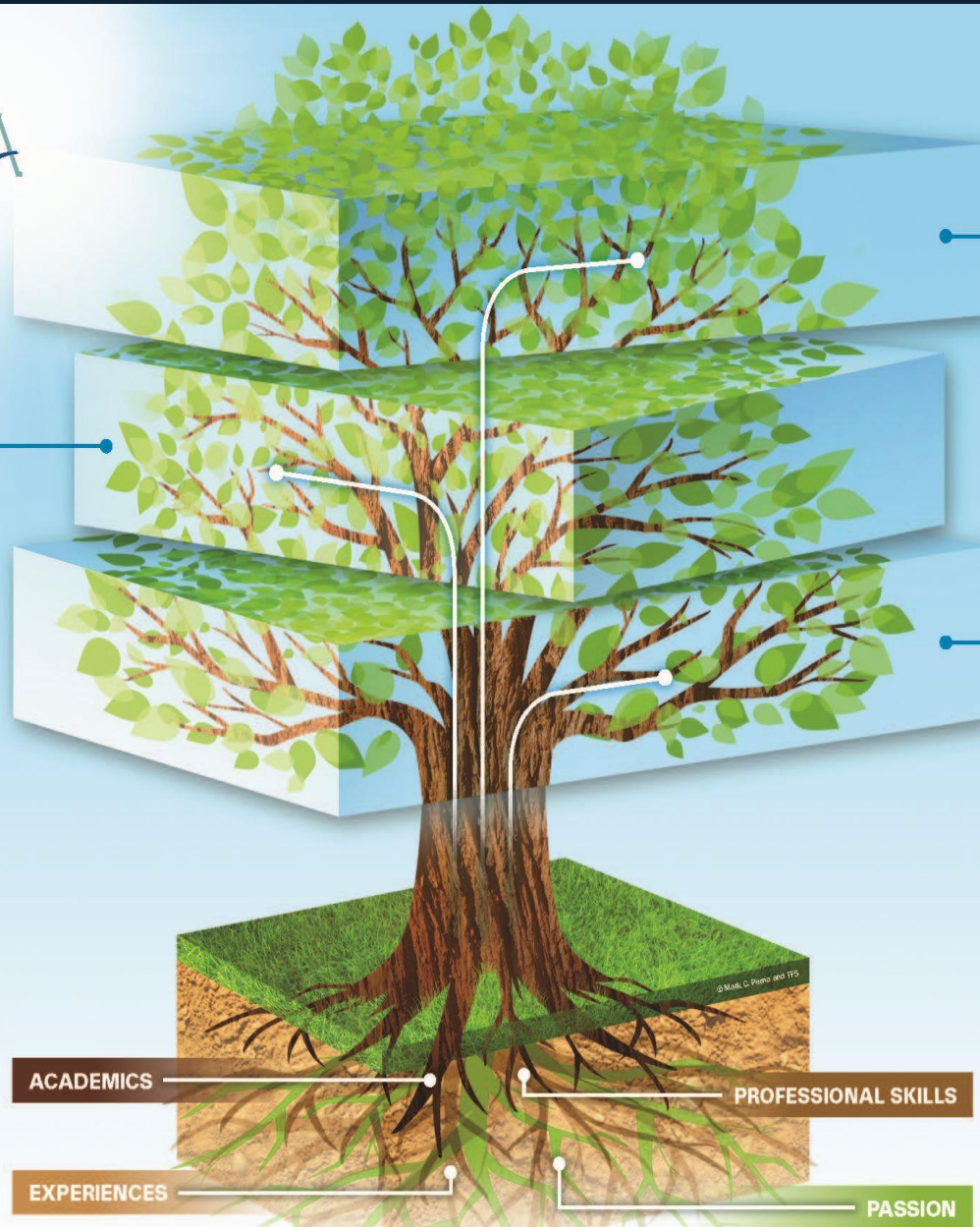
- Welder
- Metal Fabricator
- Non-Destructive Testing Technician
- Combo Welder
- Maintenance Welder
- AWS Welder
- Boilermaker
- Pipefitter/Welder
- Journeyman Welder
- Journeyman Iron Worker
- Journeyman Pipe Welder
- Welding Inspector

**PROFESSIONAL CAREERS**

- Instructor
- Company Owner
- Safety Manager
- Manufacturer Sales Representative
- Project Manager
- Plant Superintendent
- Certified Pipe Welder
- Site Superintendent
- Mechanical/Welding Engineer
- Estimator
- Metallurgist
- Safety Inspector

**ENTRY-LEVEL CAREERS**

- Production Welder
- Fabrication Shop Welder
- Construction Welder
- MIG/TIG Entry-Level Welder
- Iron Worker Apprentice
- Pipe Welder Apprentice
- Fabricator
- Boilermaker Apprentice
- Certified Welder
- Sheet Metal Worker
- Structural Welder
- Repair Welder



**WELDING**



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