www.WhitewaterCareerCenter.org

WELDING TECHNOLOGY

WHITEWATER CAREER CENTER

PROGRAM OVERVIEW



Welding Technology offers students a blend of classroom instruction and hands-on lab experience to build essential skills in oxy-fuel cutting and shielded metal arc welding. Safety is emphasized at all times through OSHA standards and American Welding Society (AWS) guidelines.

Students learn about the properties of metals, electrical principles, welding symbols, mechanical drawing, and print reading, applying these concepts to real-world projects and exercises that prepare them for both college and career success. In the second year, students advance their skills while preparing for the AWS SENSE Level I industry certification. Successful students also have the opportunity to complete co-op experiences with local companies, gaining valuable on-the-job experience and connections in the welding field.

>>> YOU WILL LEARN

- 4 major welding processes along with oxy-fuel & plasma cutting
- How to weld in flat, vertical, horizontal, & overhead positions
- How to read welding symbols & understand blueprints



MEET PAUL

FUTURE WELDER.

Union County High School and Welding Technology student at Whitewater Career Center

Early College Career Program

WELDING TECHNOLOGY

CERTIFICATION & DUAL CREDITS

AWS (American Welding Society) SENSE:

Entry Level Welder in SMAW
Entry Level Welder in FCAW
Entry Level Welder in GMAW
Entry Level Welder in GTAW

Ivy Tech Dual College Credits

WELD 100	Welding Processes	3 credits
WELD 108	Shielded Metal Arc Welding I	3 credits
WELD 206	Shielded Metal Arc Welding II	3 credits
WELD 207	Gas Metal Arc Welding	3 credits
WELD 208	Gas Tungsten Arc Welding	3 credits
WELD 272	Adv Gas Metal Arc Welding II	3 credits
WELD 273	Adv Gas Tungsten Arc Welding II	3 credits

Industry certifications are earned in year two. Dual credits are earned during year one and two.

Earn the Ivy Tech Certificate in Structural Welding at WCC. Take general education dual credit classes at your high school to work toward the next steps of a Technical Certificate and Associate in Applied Science at Ivy Tech.

Students who have earned the Ivy Tech Certificate in Structural Welding are eligible to participate in Ivy Tech Richmond's commencement ceremony.

* Certifications and dual credit courses offered are subject to change.

NEXT CAREER STEPS

Students who earn the Ivy Tech Certificate in Structural Welding are invited to participate in Ivy Tech Richmond's graduation ceremony, celebrating their accomplishments alongside college graduates. From there, students can continue their education to earn a Technical Certificate in Welding Technology or pursue an Associate of Applied Science in Industrial Technology. Other pathways include entering full-time employment, beginning an apprenticeship, joining the military, or continuing their education and skill development through on-the-job training and college opportunities.



POTENTIAL CAREERS

- Welder, Cutter, Solder, & Brazer
- Structural Metal Fabricator
- General Maintenance & Repair Worker
- Industrial Engineering Technician
- Industrial Production Manager
- First-Line Supervisor of Production

COURSE INFORMATION

Cluster: Advanced Manufacturing

Pathway: Welding Technology

WELDING TECHNOLOGY YEAR I

DOE Course Codes:

7110	Principles of Welding Technology	1 credit per semester
7111	Shielded Metal Arc Welding	1 credit per semester
7101	Gas Welding Processes	1 credit per semester

Co-requisites: Courses must be taken concurrently
Recommended Grade Levels: 11, 12

WELDING TECHNOLOGY YEAR II

DOE Course Codes:

7226	Welding Technology Capstone	3 credits per semester

Prerequisite: Year I
Recommended Grade Level: 12

Centerville | Connersville | Franklin County
Lincoln | Rushville | Union County

WHITEWATER CAREER CENTER

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