



Industrial Technology/Manufacturing

Combination Welding Certificate CIMA-5000

Learn the essential skills and knowledge required to become a combination welder. By enrolling in this short-term, hands-on program, students will receive instruction in all position welding in the areas of stick welding, MIG welding and TIG welding. Included in this program is a test preparation class for an American Welding Society certification, where students will have the opportunity to test in one of the three welding methods.

Ready to learn more? Complete our information form at www.kirkwood.edu/ce_certificatesform or contact a student advisor today at ceadvising@kirkwood.edu or 319-398-5529.

Course List:

MIG Welding Basic; Stick Welding Basic; TIG Welding Basic; Welding Test Prep

Delivery Method:

Classroom

Length of Program and CEU Credits:

160 hours, 19.2 CEUs

Entrance Requirements/Prerequisites:

None

Other Items to Know About this Course:

The following textbook will need to be purchased separately: "Welding Skills" (5th Edition) by B.J. Moniz and R.T. Miller (ISBN 978-0826930842). Students must also provide personal protective equipment including steel-toe boots/shoes, safety glasses, welding gloves, and a welding helmet.

Program Completion Requirements:

This is a pass/fail certificate. Mandatory safety training and 70 percent attendance is required to complete and receive the certificate. The AWS exam is a separate entity and does not affect completion of the program.

Industry Credentials Earned:

American Welding Society Welding Certification

Pathway to Credit Program:

None

Tuition Assistance:

Yes

Course Objectives:

- Learn the basics of various welding methods of stick welding, MIG welding, and TIG welding.
- Identify and implement proper size bead for welds.
- Self-correct common welding errors and adjust technique as needed.
- Select proper current settings for welding.
- Prepare welding equipment for safe use.

Learning Outcomes:

Upon completion of this course, students should be able to pursue a career in various types of welding and metal fabrication. This will also prepare students to take the American Welding Society Certification Exam in either stick, MIG, or TIG welding.

Careers:

Source: Career Coach 2018, Kirkwood Community College region.

Welders, Cutters, Solderers, and Brazers

Average hourly earnings: \$18.20

Starting hourly earnings: \$12.73

Projected job openings (2018 – 2023): 520

Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders

Average hourly earnings: \$17.65

Starting hourly earnings: \$12.28

Projected job openings (2018 – 2023): 51

Related Information:

NA

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Continuing Education
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