



Advanced Welding Technologies

Department: Industrial Technologies

Degree: Associate of Applied Science

Entry time: Fall, (daytime and evening classes available)

Length: 2 years (5 semesters)

- **Kibbie Grant:** Students in this program may be eligible to have half their tuition paid for by the Kibbie Grant. Go to www.kirkwood.edu/Kibbie for more details.
- One of the **top weld testing and instructional facilities** in the state.
- **American Welding Society (AWS) SENSE level curriculum** that is aligned throughout the state of Iowa.
- The program allows students to get a **1-year diploma** or a **2-year degree**.
- Students can graduate with not only **SENSE level accreditation**, but also with various **certifications** through the **AWS**.
- The **full-time instructors** are also **certified welding inspectors**.
- **AWS certifications** are accepted throughout the globe and are transferrable with the welder.
- Use top-of-the-line technology, including **Virtual Reality Welding**.
- Graduates of this program can **transfer** to the **University of Northern Iowa** to pursue a Technology Management B.A.

Program Description

Students in the Advanced Welding Technologies program can choose a diploma or an Associate of Applied Science degree. The degree program includes Shielded Metal Arc Welding, Gas Metal Arc Welding and Gas Tungsten Arc Welding. Students are prepared for a SENSE 1 and SENSE 2 level credential from the American Welding Society.

Career Opportunities

Trade unions (ironworkers, plumbers and pipefitters, and boilermakers)
Production welder
Welding fabrication
Weld shop owner
Maintenance welder
Welding inspection
Welding instructor
Welding equipment sales

Sample Classes

Introduction to Computers
Welding Blueprint Reading/Pipe
Advanced Gas Metal Arc Welding
Gas Tungsten Arc Welding
Pipe Welding/SAW
Pipe Fitters Math
Cutting Processes
AWS Bend Test
Introduction to Flux Core
Welding Quality Assurance
Pipe Welding/SAW Fixed Horizontal
Pipe Welding/SAW Qualification
Pipe Welding/GMAW
Pipe Welding/GTAW
Pipe Welding/Heavy Wall GTAW

Certificate Options

Short-term training options are available by earning a certificate. Certificate options for Advanced Welding Technologies include:

Entry-level Welder Diploma

1 year (2 semesters)

Industry endorsements earned:

Welder certification to American Welding Society codes is available in several welding processes.

Industry endorsements earned:

OSHA 10-Hour General Industry;
Adult First Aid with CPR; Forklift Class 1, 3, 4, 5, 7; 6G pipe carbon steel certifications; 3G vertical up with backing and open-root certifications;
National Career Readiness Certificate.

Scholarships

Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit www.kirkwood.edu/scholarships.

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