

INDUSTRIAL WELDING TECHNOLOGY

Associate in Applied Science

<http://www.sandburg.edu/Academics/Degree-Certificates/Welding/index.html>

The Welding program is designed to provide the graduate with skills needed to enter employment in local industry as an entry-level welding supervisor for construction firms, agricultural enterprises, and heavy machine fabrication. This certificate program is designed to provide students a hands-on welding certificate that emphasizes training and the mastery of welding techniques. The welding program emphasizes welding skill proficiency through lab activities and projects as learning activities. All the courses contain essential components required for success in the industry today such as mathematics, communication, attendance, and productivity.

Long-term Benefits:

- Increased labor pool to replace retiring workers
- Increased selection for new hires
- Overall increased quality of work force
- Overall increased quality of manufacturing in western Illinois
- Increased technical expertise of existing work force

Admission to the Program: Open

First-Time Enrollees

1. Complete an application for admission and, if desired, apply for financial aid.
2. Send an official high school transcript or GED score report to the Admissions and Records Office.
3. Complete the placement exam.
4. Meet with an advisor/counselor to select classes and complete the registration process.

Department of Career & Corporate Development

2400 Tom L. Wilson Blvd.
Galesburg, IL 61401
Phone: 309.341.5313

For Additional Information Contact:

The Welcome Center
Phone: 309.345.3500
welcomecenter@sandburg.edu

For Graduation Requirements:

See the graduation policies and procedures (http://catalog.sandburg.edu/academicinformation/#graduation_policies_and_procedures) page for details.

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Course	Title	Semester Hours
First Year		
Fall Semester		
MAT.101	Technical Mathematics 1	3
MET.100	Metallurgy Fundamentals	2
MFG.100	Introduction to Welding	3

WEL.125	Welding Blueprints	2
WEL.160	Oxyacetylene Welding & Metal Preparation	3
WEL.162	Arc Welding Basics	3
Spring Semester		
MAT.102	Technical Mathematics 2	3
MFG.125	Industrial Blueprints	3
MFG.130	Industrial Safety	2
WEL.164	Arc Welding Advanced	3
WEL.166	Gas Shielded Arc Tig	3
Second Year		
Fall Semester		
ELT.100	Electrical Fundamentals	3
MTL.103	Manufacturing Processes	2
TQM.101	Total Quality Management	2
WEL.168	Gas Shielded Arc Mig	3
WEL.170	Applications of GMAW & FCAW	3
SPE.110	Interpersonal Communication	3
	or SPE.120 or Introduction to Public Speaking	
Spring Semester		
PHY.110	Applied Physics	3
WEL.126	Weld Test Evaluation	3
WEL.149	Automated Welding Applications	2
WEL.172	Welding Applications	3
PSY.101	Introduction to Psychology	3
	or PSY.107 or Positive Psychology	
	or SOC.101 or Introduction to Sociology	
Total Semester Hours		60

Schave, Jamie
instructor, welding

La Londe, Matthew J.
instructor, welding

Kellogg, David M.
associate dean, career and corporate development

The Center for Manufacturing Excellence (CME) offers classroom space, a computer lab, and houses Carl Sandburg College's industrial programs. Students may take courses in the following subject areas: welding, biofuels, rail, machine tooling, manufacturing or electrical. The electrical lab features a host of components to aid in student learning including AC/DC trainers. In 2014, Sandburg became a designated National Academy of Railroad Sciences (NARS) training site offering courses in locomotive electrical and locomotive mechanical. Instruction is delivered by individuals with industry-specific expertise and includes specialized coursework using technical equipment. Two diesel engines inside the CME are available for training opportunities. The College's welding lab offers 16 bay stations and soon will have an additional ten working spaces. The welding area offers a welding simulator, as well as state of the art multi process welding machines.