

Welding Technology

THE PROGRAM

Welding is the way metal has been joined together for centuries. Modern welders have knowledge about materials and heat that makes welding into much more than a way to join metal. It makes welding one of the most important aspects of manufacturing, technical maintenance and repair, and even art.

At Kishwaukee College, the Welding Program includes classes in multiple welding types including shielded metal arc, gas metal arc, oxyfuel, and others. In addition, students will learn print reading in preparation for Welding Certification.

Students will weld on materials that range from 18 gauge sheet metal up to 1" thick plate and pipe. Students will weld on carbon steels, aluminum, and stainless steel. Students will also run fabrication equipment such as plate shears, press brake, plate and sheet metal rolls, box and pan brakes, tubing notcher, horizontal band saws, drill presses, iron workers, plasma and flame pipe beveling equipment, and more.

CAREER OPPORTUNITIES

Because of its strength, welding is used in nearly all fields of manufacturing, making career opportunities plenty. The field of welding now includes knowledge and skills from metallurgy, ceramics, physics, heat transfer, electrical engineering, engineering mechanics, lasers, thermal spraying, micro-joining, and robotics.

BASIC WELDING TECHNOLOGY

Curriculum No. 252

This certificate program is designed to provide students with training in Oxy-Fuel, GMAW (MIG), GTAW (TIG) and SMAW welding in addition to necessary related skills such as blueprint reading, metallurgy and manufacturing processes. At the completion of these courses, students may take the AWS Certification test on site. Requires 23-24 credit hours.

ONE YEAR PROGRAM		
Fall Semester		
WT 116	Fundamental Welding Processes	(2)
WT 122	Shielded Metal Arc Welding	(2)
WT 124	Shielded Metal Arc Welding II	(2)
WT 126	Gas Metal/Flux Core Arc Weld I	(2)
WT 128	Oxyfuel Welding/Cutting	(2)
Spring Semester		
MT 101	Print Reading for Industry	(2)
WT 152	Math for Welding	(3)
WT 133	Introduction to Fabrication	(2)
WT 257	Certification Welding	(4)
WT 258	TIG Welding	(2)

ADVANCED WELDING TECHNOLOGY

Curriculum No. 449

This Advanced Welding certificate is designed to expand on the foundational skills established in the Basic Welding certificate. Additional skill development includes the areas of layout, fabrication, advanced Gas Metal Arc Welding and ASME Pipe welding. Requires 30-32 credit hours.

FIRST YEAR		
Fall Semester		
WT 124	Shielded Metal Arc Welding II	(2)
WT 126	Gas Metal/Flux Core Arc Weld I	(2)
WT 133	Intro to Fabrication	(2)
Spring Semester		
WT 226	GMAW/FCAW II	(2)
WT 233	Fabrication II	(2)
WT 244	Welding Layout	(2)
WT 257	Certification Welding	(4)
WT 258	TIG Welding	(2)
SECOND YEAR		
Fall Semester		
WT 246	Layout II	(2)
WT 268	ASME Pipe Welding I 5G	(4)
WT 269	ASME Pipe Welding II 6G	(4)
WT 280	Specialized Welding	(2-4)

Additional Sources of Information:

DEPARTMENT

Zachery Caccia, Assistant Professor
 815-825-9703
 zcaccia@kish.edu

STUDENT SERVICES

Advising
 815-825-9375