

Welding Technology

Winona Campus

OVERVIEW

From day one in Welding Technology at MSC Southeast in Winona, you'll be getting hands-on experience in the welding shop. The program begins with training in safety and the proper handling of tools and shop supplies. Over the course of the year, our students become skilled in several welding and cutting processes in a variety of positions, including:

- (OFW) oxy-fuel welding and cutting
- (SMAW) stick welding
- (GMAW) mig welding
- (GTAW) tig welding

Students also learn the proper set up and selection of welding equipment and how to read and perform duties from weld shop blueprints. Since quality is critical, you'll also learn how to inspect your welds to meet today's standards and specifications.

All students must complete a welding capstone, designing a project from concept on through completion. Plus, there's an option to take an elective on-the-job internship, which can help with finding future employment.

Finally, you'll gain the skill to properly set up, complete, and pass a welding bend test to AWS (American Welding Society) D1.1 standards. With your diploma and this credential, you'll have the skills needed to enter today's welding workforce!

MAJORS WITHIN

Welding Technology Diploma 34 credits

Estimated costs for each major including tuition, books and supplies are posted on southeastmn.edu under Academics > Academic Programs by Degree.

NEW! Welding Skills Lab - 2 credit class - register today! Enhance your skills or learn something new

The Welding Skills Lab Course is open laboratory time on Thursday nights for both the skilled and unskilled welder to improve or develop welding application skills.

Class time offers access to SMAW (stick), GMAW (MIG), FCAW (flux-cored), and GTAW (TIG) welding processes, including enhancement and/or introduction of all 1G, 2G, 3G, and 4G welding positions will also be covered!

To sign up for the welding skills lab only, contact Instructor Casey Mann at 507-453-2748, kmann@southeastmn.edu



PROGRAM HIGHLIGHTS

Learn correct use of personal safety equipment and apparel and how to protect against injury

Get hands-on experience in the welding lab from day one

Learn a wide range of welding processes needed by today's employers

Rigorous classroom standards will prepare you for employer expectations

CAREER OPPORTUNITIES

Production manufacturing welder
Structural design welder
Custom fabrication
Specialized welding machine operator
Cutter, pipe fitter
Construction welding
Heavy equipment welder
And much more!

JOB PLACEMENT

100%



Welding - Diploma

Sample Full-time Program Plan

Please note that this is a sample program schedule. Your schedule may vary depending upon your needs, goals, and course availability. Please meet with your advisor to plan your schedule each semester.

Course No.	Course Name	Credits
First Semester (Fall)		
GEN ED	Math	2
GEN ED	Elective	1
WELD 1405	Safety, Theory, Blueprints, & Processes	4
WELD 1410	SMAW, Principles of Stick Welding	3
WELD 1415	Oxy-fuel Weld, Cutting & Brazing	1
WELD 1420	GMAW - MIG Wire Feed I	3
WELD 1430	GTAW - Tungsten Inert Gas Weld I	3
Semester total		17
Second Semester (Spring)		
GEN ED	English	2
WELD 1425	GMAW-MIG Wire Feed II	3
WELD 1435	GTAW - Tungsten Inert Gas Welding II	3
WELD 1440	Workplace Projects & Fabrication Capstone	3
WELD 1443	Welding Fabrication Projects	3
WELD 1450	Welding Internship	3
Semester total		17
Total Required Credits		34

PROGRAM INSTRUCTOR

Casey Mann is a 1982 graduate of Winona Technical College (now Minnesota State College Southeast). Prior to becoming an instructor at MSC Southeast in 2003, he had 27 years of experience in family-owned shops, large scale fabrication shops, and road crews. Casey has project management experience on multi-million dollar projects that have been shipped throughout the world.