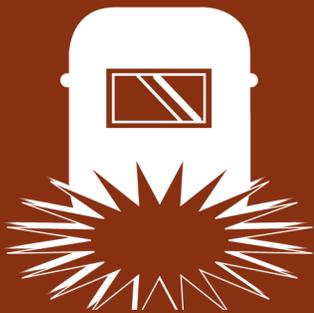


Welding Technology



"Because of CTE, I'm on track to pursuing my career in construction."

**- Blake Roggow
Former CTE student**

You can't start a fire without a spark.

When it comes to job prospects for the near future, it's simple: America needs welders. Employers in manufacturing and fabrication of many different varieties are looking for ambitious, knowledgeable welders, so if you enjoy making things, working with your hands, working with machines and taking pride in your work, consider this high-demand class the first spark of a bright future career.



Overview

Students will learn the art and technology of joining metals together with heat, using special equipment to perform different welding processes such as oxy-fuel cutting and brazing, gas metal arc and shielded metal arc welding. They will also learn to accurately fabricate a project, work from blueprints, repair broken parts, problem-solve a welding dilemma and use math and measurement skills to set up and lay out the parts used for the welding project. This is a welding course that applies many of the major processes used in major industries. From Day One, you'll be learning about safety. You'll be getting dirty. You'll be making sparks. Because this is a dual enrollment class with MMCC, it's a great opportunity to take advantage of the whole CTE experience. There are a ton of job opportunities in all 50 states for welding, meaning this is a career that has boundless opportunities in the job market, locally and nationally.

Potential Careers

Participation in Welding Technology and further training can help prepare you for careers in areas like welding and fabrication. With further training and/or education, you can pursue careers in areas like:

- Engineering
- Pipe Fitting
- Boiler Making
- Steel Work
- Education & Training
- Sales

Welding Technology is a supported dual enrollment experience offered through Clare-Gladwin CTE and Mid Michigan Community College.



Details

Primary Units of Instruction:

- Gas Metal Arc Welding (GMAW), aka Mig or wire welding
- Shielded Metal Arc Welding (SMAW), aka stick, rod
- Gas Tungsten Arc Welding (GTAW), aka Tig, Heliarc
- Fluxcore Arc Welding (FCAW)
- Cutting oxy fuel and plasma
- Inspection
- Welding Symbols
- Health and Safety

Length of Program: 1.5 years if pathway is followed for MMCC Welding Certification; 1 year for AWS SENSE Certification

Program Schedule:

A.M. Session - 8 a.m. - 10:30 a.m.
P.M. Session - 12:00 p.m. - 2:30 p.m.

It's Working!

cte

CAREER & TECHNICAL EDUCATION
CLARE-GLADWIN RESD



Welding Technology



What's It Like? What to expect from this class



Instructor Nick Blackmer says:
"You should expect to get dirty. You should expect to get assignments that would apply in the real world and that work toward national certifications. This class will help you launch a career with great job opportunities, and you'll learn about craftsmanship, taking pride in doing good work, learning to meet deadlines and all the essential elements of a successful welding career."

This is a career that has boundless opportunities in the job market, locally and nationally.

Learning Environment

Time will be spent in the Welding Lab at MMCC. Students should have good oral and written communication skills, as well as the ability to work well with others. Students will spend their first semester focused on welding safety and an introduction to the welding field. Students will use Moodle as a learning management tool to access lecture materials while working hands-on in a laboratory setting.

IS THIS PROGRAM FOR me?

It is if you...

- ...don't mind getting dirty
- ...want to work safely
- ...want to enter a growing field
- ...enjoy hands-on learning
- ...like to make things
- ...want to gain leadership skills
- ...want a job you can do anywhere



CLARE-GLADWIN
REGIONAL EDUCATION SERVICE DISTRICT
Excellence in Education Services

The Clare-Gladwin Regional Education Service District Board of Education complies with all Federal laws prohibiting discrimination and with all requirements and regulations of the U.S. Department of Education. It is the policy of the Clare-Gladwin Regional Education Service District that no person on the basis of race, color, religion, national origin, creed or ancestry, age, gender, sexual orientation, marital status, or disability shall be discriminated against, excluded from participation in, denied the benefits of or otherwise be subjected to discrimination in employment or under any program or activity to which it is responsible, or for which it receives financial assistance from the U.S. Department of Education. Inquiries regarding this policy can be addressed to the Superintendent, 4041 E Mannsiding Rd., Clare, MI 48617, phone 989-386-3851.

Going to college? Start with CTE

Students who successfully complete the coursework for the welding program are earning college credit toward a credential, certificate or degree from Mid Michigan Community College. The welding program pathway is designed so that students can ladder their education and begin earning credit toward a welding certification while a junior in high school.

College Partnerships & High School Credit

- Successful students will earn dual enrollment college and high school credit through MMCC

Who's Up For a Second Helping?

Students interested in returning for the program's second year must:

- Have 10 or fewer unexcused absences per year
- Have zero classroom discipline referrals
- Maintain a 2.0 or above grade point average
- Be an effective and collaborative team member
- Be self-directed and have a personal desire to pursue a career in manufacturing

High School Credit and CTE Certification

Students may earn the state-required fourth-year math-related course credit through this program. Local high schools will award credit upon successful completion of this program. The CTE Certificate of Completion will be awarded to students who successfully complete their programs. In addition, students can earn college credits upon successful completion of their courses, ultimately leading toward a credential, certificate or degree.



From Day One, students in CTE's Welding Technologies class will learn about safety first, then get right to work in the labs.