THE WELDING FIELD
Welders permanently join pieces of metal with metal filler using heat, with or without pressure. They construct and repair parts of ships, automobiles, spacecraft, and other products.

WELDING AT CAREERLINE TECH CENTER
Students learn the basic methods of Oxy-Fuel Welding (OFW), Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding.

MAIN AREAS OF FOCUS
- Fabricating Projects
- Operating Equipment Safely
- Oxyacetylene Welding
- Cutting
- Shielded Metal Arc Welding
- Braze and Fluxcore Welding
- Ferrous/Non-Ferrous Welding
- Gas Tungsten Arc Welding
- Gas Metal Arc Welding
- Welding Symbols
- Blueprint Reading
- Plasma Arc Cutting

HIGH SCHOOL CREDIT · ACADEMIC CREDIT · COLLEGE CREDIT
You will earn elective credit at your high school when you complete this course. You may be eligible to earn 4th year math-related credit, 3rd year science credit, VPAA credit, and credit for an online learning experience, too. See your high school counselor for more information.

WELDING

Learning Environment
Design, layout, cutting, and fabricating of metals, and identification of properties of metals and alloys are studied. In addition, students learn fluxcore arc welding and plasma arc cutting. Students work in the classroom learning about various types of welds and metals and gain practical experience in the welding lab. First year students study oxyacetylene welding, cutting, and brazing along with shielded metal arc welding in all positions. Second year students learn gas metal arc welding, gas tungsten arc welding, plasma arc cutting, fluxcore welding, and blueprint reading and welding symbols.

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LENGTH OF PROGRAM
2 year
YOU MIGHT TAKE THIS CLASS IF YOU
- have good hand/eye coordination
- are detail-oriented
- are creative
- are organized
- understand measurements
- like working with your hands
- are good at problem-solving

JOBS YOU CAN PREPARE FOR
WITH FURTHER EDUCATION
- Technician
- Engineer
- Inspector
- Estimator

STUDENT LEADERSHIP
Welding students have the opportunity for leadership, competition, and community service through membership in SkillsUSA.

COLLEGE CREDIT
Students have the opportunity to earn college credit while still in high school through early college credit options and articulation agreements.

Early College
Early college credit is actual college credit earned while in a Tech Center program. The credit appears on a college transcript and can be transferred to many colleges/universities throughout Michigan. A significantly reduced tuition is charged for each college class.

Articulated Credit
Articulated credit is credit that a specific college or university grants for classes taken at the Tech Center. Credit is posted to the transcript after the student has completed a certain number of classes. There is no charge for articulated credit and it cannot be transferred from one college to another.

Visit our website for more information on college credit: www.careerlinetech.org/ctc/collegecareerservices/collegecredit

TO ENROLL:
Call your high school counselor or call 1-877-702-8601.
www.careerlinetech.org

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