Careerline Tech Center – Welding

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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

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.
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.

Direct Credit
Direct 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.

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