



Welding Technology C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1356

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide the basic skills needed for entry-level welding. Students following this program will learn how to perform Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (MIG) and Gas Tungsten Arc Welding (TIG). Welders can be found in tool and die industries, automobile manufacturing, construction industries, oil refineries, pipeline and pressure vessel industries, aircraft industries, and many more metal-related industries. All of the coursework may be applied toward the Welding Technology Certificate of Achievement and the Welding Technology Associate of Applied Science Degree.

Milestone

Completion of WELD 103 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
TECH 102	General Industry Safety	2 / 3
WELD 103	Combination Welding	4 / 6
WELD 105	Advanced ARC Welding	4 / 6
WELD 110	Gas Metal ARC Welding	4 / 6
WELD 111	Gas Tungsten ARC Welding	4 / 6

Minimum Total Credit Hours

18 credits / 27 billing hours

Recommended Course Sequence

Semester I
TECH 102
WELD 103 – Milestone course
WELD 110
Semester II
WELD 105
WELD 111

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.