



## Welding Technology C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0156

Effective: Fall 2023 – Summer 2028

### Description

Students receive hands-on instruction in the basics of MIG, TIG, shielded metal arc, brazing and oxy-fuel cutting, and plasma cutting to prepare them for entry-level positions.

### 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

If students have already completed DCTM 102, ELTE 102, HVAC 102, METS 102, or WELD 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. Any of these courses will fulfill the prerequisite for METS 140.

### Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Center for Manufacturing Excellence at the West Campus Building, 5708 Cornerstone Drive, Lansing MI 48917, Room M103, telephone number 517-483-1104 or by [email](mailto:manufacturing@lcc.edu) (manufacturing@lcc.edu).

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
METM 190	Metallurgy and Heat Treatment	4 / 6
METS 140	Rigging	3 / 4.5
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
WELD 125	Structural Print Reading/ Weld	2 / 2
WELD 220	Structural Fab & Inspection	4 / 6

### Minimum Total Credit Hours

31 credits / 45.5 billing hours

## Recommended Course Sequence

Semester I
TECH 102
WELD 103 – Milestone course
WELD 110

Semester II
WELD 105
WELD 111
WELD 125

Semester III
METM 190
METS 140
WELD 220

*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 title changes, and make course changes as needed, without prior notice.*