



## **Welding Technology C.A.**

Career Community: Electrical and Manufacturing

Curriculum Code: 0156

Effective: Fall 2025 – Summer 2030

### **Purpose of the Major**

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**

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. DCTM 102 will also fulfill the prerequisite for METS 140.

### **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](mailto: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 |
|-------------|-------------------------------|------------------------|
| 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                  |

### **Additional Credits**

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any

course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

### 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 titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.*