

WELDING TECHNOLOGY - WELDING OPERATOR, ONE-YEAR TECHNICAL CERTIFICATE

Curriculum Code #6008

Effective May 2026

Division of Engineering, Business and Information Technologies (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/>)

The welding technology program is designed to provide students with the knowledge, skills and behaviors necessary for the competent performance as an entry-level welding technician. The welding technician is the liaison between the welding engineer and the welder. The program is based on the occupational analyses and needs of the maintenance and fabrication welding industries. Employment opportunities exist in a variety of industries such as steel, construction, fabrication, pipelines and others. Students who complete the program may choose to take certain welding certification tests. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

First Year		
Fall Semester		Hours
AETC 115	INDUSTRIAL ROBOTICS I	3
MTHM 155	TECHNICAL MATHEMATICS I	4
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY ²	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
WTEC 108	OXY-FUEL WELDING AND CUTTING ³	2
WTEC 111	WELDING SPECIFICATIONS/PRINT READING	2
WTEC 116	BASIC SHIELDED METAL ARC WELDING ³	3
Hours		18
Spring Semester		
CADD 111	INTRODUCTION TO COMPUTER AIDED DRAFTING ³	2
ENGL 161	COLLEGE COMPOSITION I	3
WTEC 216	WIRE FED PROCESSES ¹	3
WTEC 217	GAS TUNGSTEN ARC WELDING ¹	3
WTEC 287	WORK-BASED LEARNING I - WTEC ¹	1
Select one of the following:		3
Arts and Humanities Elective ⁴		
Social Sciences Elective ⁴		
Hours		15
Summer Semester		
WTEC 112	WELDING CODES AND STANDARDS ¹	2
Hours		2
Total Hours		35

¹ Indicates that this course requires a prerequisite.

² A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 12 or more credit hours.

³ Indicates that this course requires a prerequisite or may be taken concurrently.

⁴ Select any Arts and Humanities or Social Science Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

Note: This program can be taken as part of the Boilermakers training program. Welding Technology (WTEC) courses should be taken under the subject code of Boilermakers (BMKR).

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling/>).

More program information can be found on our website.
(<https://www.lorainccc.edu/engineering/welding/welding-operator-one-year-certificate/>)

Credit for Prior Learning (PLA) options may be available for your program. For more information, please visit our website: www.lorainccc.edu/PLA (<http://www.lorainccc.edu/PLA>)

Program Learning Outcomes

1. Demonstrate knowledge, techniques, skills, and use of the appropriate tools in welding applications
2. Apply math, blue print reading, and basic engineering technology principles to solve problems in welding engineering technology