

2022-23 ACADEMIC PROGRAMS

WELDING AND FABRICATION ADVANCED APPLICATIONS (CVWLDN)

This advanced certificate program combines welding fundamentals with more complex welding, cutting and fabrication techniques and applications aimed to further develop one's skills and core competencies. Students will:

- focus on welding using processes and positions common in industry,
- perform destructive and non-destructive testing,
- identify weld failures and perform root cause analysis
- execute repair techniques,
- perform advanced fabrication techniques and
- execute automated welding and cutting programming and operations.

Students who successfully complete this program will have learned a broad range of essential skill sets critical to the trade. Consider for Career Outlook API ...and know how to apply those skills to manufacturing, automotive, construction, aerospace, oil, military industry, gas, and power industries.

Come see our AWS certified staff and learn in our newly renovated lab equipped with state-of-the-art equipment for welding and fabrication; weld inspection and testing; and automated welding and cutting!

This is a **high demand** and **high skill** program as defined by the [Michigan Community College Network](#).

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Description

This advanced certificate combines welding fundamentals with more complex welding, cutting and fabrication techniques and applications aimed to further develop one's skills and core competencies. Students focus on welding using processes and positions common in industry, perform destructive and non-destructive testing, identify weld failures and perform root cause analysis, executive repair techniques, perform advanced fabrication techniques and execute automated welding and cutting programming and operations. Students who successfully complete this advanced certificate will have learned a broad range of essential skillsets critical to the trade and how to apply those skills to manufacturing, automotive, construction, aerospace, oil, military industry, gas and power industries.

Articulation

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>.

Admissions Requirements

Successful completion of the Welding and Fabrication Principles Certificate (CTWLDS).

Continuing Eligibility

WAF 233 and WAF 239 require a Math Level 2.

Course Requirements

Major/Area Requirements

Class	Title	Minimum Credits
WAF 150	Automated Welding and Cutting	3
WAF 210	Welding Metallurgy	3
WAF 230	Advanced Shielded Metal Arc Welding (SMAW)	4
WAF 231	Gas Tungsten Arc Welding (GTAW)	4
WAF 232	Semi-Automatic Welding Processes	4
WAF 233	Submerged Arc and Flux Core Arc Welding	3
WAF 239	Advanced Metal Fabrication	3
Total		24

Total Credits Required: 24

Accurate as of 07/01/2022 Information is subject to change without notice.