2024-25 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.

Do you have another career in mind? Search for careers

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

<table>
<thead>
<tr>
<th>Class</th>
<th>Title</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAF 150</td>
<td>Automated Welding and Cutting</td>
<td>3</td>
</tr>
<tr>
<td>WAF 210</td>
<td>Welding Metallurgy</td>
<td>3</td>
</tr>
<tr>
<td>WAF 230</td>
<td>Advanced Shielded Metal Arc Welding (SMAW)</td>
<td>4</td>
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<tr>
<td>WAF 231</td>
<td>Gas Tungsten Arc Welding (GTAW)</td>
<td>4</td>
</tr>
<tr>
<td>WAF 232</td>
<td>Semi-Automatic Welding Processes</td>
<td>4</td>
</tr>
<tr>
<td>WAF 233</td>
<td>Submerged Arc and Flux Core Arc Welding</td>
<td>3</td>
</tr>
<tr>
<td>WAF 239</td>
<td>Advanced Metal Fabrication</td>
<td>3</td>
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<tr>
<td>Total</td>
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<td>24</td>
</tr>
</tbody>
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Total Credits Required: 24

Accurate as of 05/08/2024 Information is subject to change without notice.