

OCCUPATIONAL CERTIFICATE (CERT) AWC ADVISEMENT CHECK SHEET**WELDING FOR MANUFACTURING-ADVANCED**

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| Student Name | ID # | Advisor | Major Code: CERT.WLDMA Credits: 12 |
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Graduates will demonstrate fundamentals of materials science, metallurgy; safety and the fundamentals of welding project management, creation of bills of materials and use of blueprints for project production; the fundamentals of Flux Core Arc Welding (FCAW) welding process for carbons steel for fabrication and repairs; the fundamentals of Gas Tungsten Arc Welding (GTAW) welding process for carbons steel, aluminum, and stainless steel for fabrication and repairs; and the fundamentals of welding design and fabrication applicable to manufacturing, fabrication, and repairs.

| Required Major Courses (12 Credits) | | Cr | Gr | Sem | Notes |
|--|--|-----------|-----------|------------|--------------|
| MFG 195 | Material Science and Metallurgy | 3 | | | |
| WLD 104 | Techniques in Flux Core Arc Welding | 3 | | | |
| WLD 108 | Techniques in Gas Tungsten Arc Welding | 3 | | | |
| WLD 125 | Techniques in Gas Metal Arc Welding | 3 | | | |