

WELDING AND METALS FABRICATION - ADVANCED TECHNICAL CERTIFICATE (ATC)

Certificate Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Manufacturing and Welding
- **Program Code:** WEMF.ATC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

Explore More About This Program: <https://cwi.edu/program/welding-and-metals-fabrication>

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
<i>Choose one of the following courses to complete the GEM 1 or GEM 2 requirement:</i>		
Select one of the following:		3
<u>GEM 1 - Written Communication course</u>		
<u>GEM 2 - Oral Communication course</u>		
<i>Complete the following course to fulfill the GEM 3 requirement:</i>		
<u>GEM 3 - Mathematical Ways of Knowing course</u>		3
<i>Complete the following course to fulfill the GEM 6 requirement:</i>		
<u>GEM 6 - Social & Behavioral Ways of Knowing course</u>		3
Major Requirements		
WEMF 111	Safety and Leadership I	1
WEMF 112	Safety and Leadership II	1
WEMF 125	Blueprint Reading for Welders I	1
WEMF 126	Blueprint Reading for Welders II	1
WEMF 127	Blueprint Reading for Welders III	1
WEMF 128	Blueprint Reading for Welders IV	1
WEMF 135	Gas Metal Arc Welding (GMAW) Practical	4
WEMF 155	Welding Theory I	1
WEMF 156	Welding Theory II	1
WEMF 157	Welding Theory III	1
WEMF 158	Welding Theory IV	1
WEMF 175	Shielded Metal Arc Welding (SMAW) Practical	4
WEMF 180	Production Welding	4
WEMF 185	Gas Tungsten Arc Welding (GTAW) Practical	4
WEMF 225	Blueprint Reading and Layout V	2
WEMF 226	Blueprint Reading and Layout VI	2
WEMF 227	Blueprint Reading and Layout VII	2
WEMF 228	Blueprint Reading and Layout VIII	2
WEMF 255	Welding and Fabrication Workshop I	4
WEMF 256	Welding and Fabrication Workshop II	4
WEMF 257	Welding and Fabrication Workshop III	4
WEMF 258	Welding and Fabrication Workshop IV	4
Minimum Credit Hours Required		59