

WELDING TECHNICIAN CERTIFICATE

14 Semester Credit Hours; Curriculum: 0250

Welding is used by various trades ranging from artistic sculptures to heavy metal fabrication of bridges and ships. The certificate follows standards of American Welding Society (AWS). It covers training of major welding technologies including Shielded Metal (SMAW), Gas Metal (MIG), and Gas Tungsten (TIG) with emphasis on OSHA safety regulations. This certificate can be completed in one semester.

Code	Title	Hours
Courses for a Certificate		
MFG 101	Occupational Safety	2
MFG 102	Industrial Drafting and Design	3
MFG 111	Introduction to Computer Integrated Manufacturing (CIM)	3
MFG 120	Introduction to Welding	3
MFG 125 or MEC 105	Advanced Welding Processes and Materials	3
Total Hours		14

Program Learning Outcomes

1. Apply OSHA safety standards related to welding applications.
2. Interpret technical drawings including welding prints.
3. Explain welding terms, codes, symbols, and standards established by American Welding Society (AWS).
4. Practice various welding techniques including Shielded Metal (SMAW), Gas Metal (MIG), and Gas Tungsten (TIG).