

WELDING TECHNOLOGY, CERTIFICATE OF ACHIEVEMENT (LEVEL III)

NMC Code 086

The Welding Certificate Level III program is designed for students who have completed Welding Certificate Level II and wish to advance their technical skills or continue toward the Associate of Applied Science in Welding Technology. This program expands upon foundational welding competencies by introducing coursework in print, reading welding metallurgy, electrical principles, and Flux Cored Arc Welding-Gas. Elective options of Pipe Welding and Machining II enable students to tailor their training to specific industry pathways. Students are eligible to enroll in AWS qualification courses for the welding processes they have completed. Graduates emerge with advanced welding knowledge, enhanced fabrication capabilities, and a clear academic pathway into the Associate of Applied Science degree.

Requirements

Certificate requirements

Course	Title	Credits
Level II Certificate Requirements		
Complete Level II Certificate		31
Level III Certificate Requirements		
DD 101	Print Reading and Sketching	3
DD 110	Basic Metallurgy	3
EET 103 or ELE 101	Electrical Studies I Introduction to Electrical I	3
WPT 142	Flux Core Arc Welding	3
WPT 160	Weld. Qualification Prep-SMAW	2.5
WPT 160A	Weld. Qualification Prep-GMAW	2.5
WPT 160B	Weld Qualification Prep-GTAW	2.5
WPT 160C	Weld. Qualification Prep-FCAW	2.5
Approved Elective		3
Total Credits		56

Course Sequence Guide

Course	Title	Credits
Year 1		
Fall		
DD 101	Print Reading and Sketching	3
WPT 115 or CMT 100	Welding Safety Standards or Introductory Craft Skills	2
WPT 120	GTAW (TIG) Welding I	3
WPT 130	SMAW (ARC) Welding I	3
WPT 140	GMAW (MIG) Welding I	3
Credits		14
Spring		
MFG 111	Math for Manufacturing	3
WPT 121	GTAW (TIG) Welding II	3
WPT 131	SMAW (ARC) Welding II	3

WPT 141	GMAW (MIG) Welding II	3
WPT 210	Welding Fabrication and Repair	3
Credits		15
Year 2		
Fall		
MFG 113	Machining I	3
EET 103 or ELE 101	Electrical Studies I or Introduction to Electrical I	3
WPT 142	Flux Core Arc Welding	3
WPT 160	Weld. Qualification Prep-SMAW	2.5
WPT 160B	Weld. Qualification Prep-GTAW	2.5
Credits		14
Spring		
Approved Elective (see Recommended)		2-3
DD 110	Basic Metallurgy	3
WPT 160A	Weld. Qualification Prep-GMAW	2.5
WPT 160C	Weld. Qualification Prep-FCAW	2.5
WPT 290	Welding Internship	2
Credits		12-13
Total Credits		55-56