

Welding - Advanced

Overview

Career Studies Certificate

PURPOSE: The program offers a career pathway that enables learners to continue their studies for advanced skills. Those who complete this certificate will be well prepared to fill the gap in industrial manufacturing between the welder/fitter-welder and the welding shop supervisor by being better prepared in structural and maintenance welding. Structural and pipe welders join and assemble components as part of the construction of buildings, vessels, structures, and stand-alone pipelines. They use a variety of welding processes and equipment, in a wide range of industrial and commercial environments.

OCCUPATIONAL OBJECTIVES: Opportunities for graduates include shop supervisor, weld inspector, offsite welder, fitter/welder, pipe welder, and advanced structural welder.

ADMISSION REQUIREMENTS: General college curricular admission

PROGRAM NOTES: Students should possess the competencies obtained by completion of WEL 120 - Fundamentals of Welding, WEL 160 - Gas Metal Arc Welding (MIG and FCAW), and WEL 164 - Gas Tungsten Arc Welding (GTAW), Tungsten Inert Gas (TIG), or may petition for program head approval to enroll in the program.

Roadmap

Order	Course	Title	Credits
1	HLT 106	First Aid and Safety	2
2	MTH 111	Basic Technical Mathematics	3
3	WEL 153	Layout and Fitting for Welders	3
4	WEL 141	Welder Qualification Tests I	3
5	WEL 145	Welding Metallurgy	3
6	WEL 126	Pipe Welding I	3
TOTAL	Advanced - Welding Career Studies Certificate		17