

Certificate

ADVANCED WELDING TECHNOLOGIES

Welding plays a critical role in the strength and durability of everything from cars to heavy industrial machinery to bridges. HGTC's Advanced Welding certificate provides students entry level training and practical skills in Thermal cutting, SMAW (Arc), GMAW (MIG), FCAW (Flux Core) and GTAW (TIG) in ferrous and non-ferrous metals, including purge welding of sanitary process pipe.

In addition to preparing students for AWS welder performance certifications, students will also learn shop and site safety practices, blue print reading, principles of metallurgy, construction math, hand and power tool usage and basic layout techniques used in the fabrication industry.

Required Courses

Advanced Welding Technologies Certificate Requirements

CERTIFICATE REQUIREMENTS: ADVANCED WELDING TECHNOLOGIES		
Component	Course Title	Semester Credit Hours
WLD 106	Gas and Arc Welding	4
WLD 110	Welding Safety and Health	1
WLD 111	Arc Welding I	4
WLD 113	Arc Welding II	4
WLD 132	Inert Gas Welding Ferrous	4
WLD 134	Inert Gas Welding Non-Ferrous	3
WLD 140	Weld Testing	1
WLD 154	Pipefitting and Welding	4
WLD 201	Welding Metallurgy	2
WLD 228	Inert Gas Welding Pipe I	4
WLD 229	Inert Gas Welding Pipe II	2
WLD 103	Print Reading	1
Total Credit Hours		34