

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 Oxy-Acetylene cutting and brazing, 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

CURRICULUM SEQUENCE FOR DAY & EVENING SECTIONS

First Semester - Fall	Course Title	Semester Credit Hours
WLD 103	Print Reading I	1
WLD 106	Gas and Arc Welding	4
WLD 110	Welding Safety and Health	1
WLD 111	Arc Welding I	4
WLD 201	Welding Metallurgy	2
	TOTAL	12
Second Semester - Spring		
WLD 113	Arc Welding II	4
WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipe Fitting and Welding	4
	TOTAL	12
Third Semester - Summer		
WLD 134	Inert Gas Welding Non-Ferrous	3
WLD 140	Weld Testing	1
WLD 228	Inert Gas Welding Pipe I	4
WLD 229	Inert Gas Welding Pipe II	2
	TOTAL	10
	TOTAL CREDIT HOURS	34

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