



Program Options: Welding Technology
 Short Certificate/Certificate/AAS Degree
 Options - C238
 Careers in Welding &
 Welding Engineering Technology



Manufacturing and Technology

Courses	Title	Prerequisites	Awd	Lec	Lab 2:1	Total
Diploma Awarded: Short Certificate (STC) - after completion of the following classes			Total Hours =		18	
WKO 110	NCCER Core Curriculum		STC	2	2	3
AUT 186	Principles of Welding & Metal Cutting Techniques		STC	1	4	3
WDT 109	SMAW Fillet/PAC/CAC Welding		STC	2	2	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding (GMAW)	AUT 186	STC	2	2	3
WDT 120	SMAW Groove Plate	AUT 186	STC	2	2	3
WDT 166	Flux Core Arc Welding (FCAW)	AUT 186	STC	2	2	3
*Students must be ELIGIBLE for MTH 100 and ENG101 before this certificate can be awarded						
Diploma Awarded: Certificate (CER) -add the following classes to those listed above			Total Hours =		30	
AHUM EL	Humanities & Fine Arts Elective (recommend ART100 or PHL106)		AAS	3		3
ENG 101	English Composition	Placement Test or ENG098	CER	3		3
MTH 100	Intermediate College Algebra	Placement Test or MTH098	CER	3		3
WDT 219	Welding Inspection and Testing Theory		CER	3		3
Diploma Awarded: Associate in Applied Science (AAS) -add the following classes to those listed above			Total Hours =		64	
ASOC EL	Soc & Behavior. Sci. Elective (recommend PSY 200 or SOC 200)		AAS	3		3
SPH 107	Fundamentals of Public Speaking		AAS	3		3
SCIENCE EL	Technical Physics or Physical Science II (PHY 115 or PHS 112)	MTH 100 (for PHY115)	AAS	3	1	4
CIS 146	Microcomputer Applications		AAS	3		3
AUT 213	Robotics Project (Fanuc Welding Cell)	AUT 116 & AUT 186	CER	1	4	3
WDT 115	GTAW Carbon Pipe Welding	AUT 186	AAS	1	4	3
WDT 125	SMAW Groove Plate Lab	AUT 186	AAS		6	3
WDT 217	SMAW Carbon Pipe	WDT 125	AAS	1	4	3
WDT 218	Certification	WDT 219	AAS	2	2	3
WDT 228	Gas Tungsten Arc Welding (GTAW)	WDT 186	AAS	2	2	3
WDT 258	Certification Lab	WDT 219	AAS		6	3
WDT 290	CO-OP (Elective) Not required*		AAS		6	3

Credentials

Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair, the varied welding industry impacts virtually every industry- technology is creating more uses for welding in the workplace. Various welding credentials from the National Center for construction Education & Research (NCCER) will be awarded upon successful completion of the various welding classes shown here. NCCER curriculum correlates to the American Welding Society (AWS) SENSE(Schools Excelling through national Skills Education) Standards and Guidelines for Entry Level Welders.