

Welding Technology: Gas Metal Arc Welding(GMAW)

#REF!



CIP CODE 48.0508

Students will learn theory and principles of the Gas Metal Arc Welding (GMAW) process. Students will become proficient in all welding positions with the short circuit transfer mode and will also learn axial spray transfer and pulse spray transfer modes.

OUTCOMES	Delivery Method	OE/OE (min 10 - max 28)
MATC Program Certificate: Gas Metal Arc Welding	Enrollment Availability	Adults Only
	Financial Aid Available	No
	VA Qualified	Yes

PREREQUISITES

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All students must meet with Welding Instructor

SECTION	LOCATION	ROOM	START DATE	END DATE	START TIME	END TIME	DAYS	INSTRUCTOR	NOTES
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	7:30 AM	10:30	M-F	Josh McCrary	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	7:30 AM	10:30	M.W.F	Josh McCrary	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	7:30 AM	10:30	T.TH	Josh McCrary	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	11:30 AM	2:30 PM	M-F	Josh McCrary	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	11:30 AM	2:30 PM	M.W.F	Josh McCrary	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	11:30 AM	2:30 PM	T.TH	Josh McCrary	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	2:45 PM	5:45 PM	M-F	Josh McCrary, Reed Esplin	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	2:45 PM	5:45 PM	M.W.F	Josh McCrary, Reed Esplin	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	2:45 PM	5:45 PM	T.TH	Josh McCrary, Reed Esplin	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	6:00 PM	9:00 PM	M-TH	Josh McCrary, Jared Massic, Reed Esplin, Dustin Taylor	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	6:00 PM	9:00 PM	M.W	Josh McCrary, Jared Massic, Reed Esplin, Dustin Taylor	
Open Entry/ Open Exit	Orem	108	Open Entry	Open Exit	6:00 PM	9:00 PM	T.TH	Josh McCrary, Jared Massic, Reed Esplin, Dustin Taylor	
*Summer Schedule	Orem	108	6/1/2016	8/8/2016	All Sections		M-TH		

TUITION /FEES	COST	NOTES
Registration Fee	#REF!	#REF!
Facilities Fee	#REF!	
Program Fees	\$250.00	#REF!
Tuition	#REF!	
Total Tuition and Fees	#REF!	#REF!

REQUIRED PROGRAM MATERIALS	COST	NOTES
Textbooks & Resources	\$40.00	Student Binder & Hobart Institute of Welding Technology – Welding Guide
AWS Online Course Subscription	\$163.00	
Welding Equipment	\$42.00	
Welding Helmet	\$116.00	
Protective Clothing	\$46.00	
Steel Toed Boots	\$30.00	
Total	\$437.00	

OPTIONAL PROGRAM MATERIALS	COST	NOTES
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Total	\$0.00					
PROGRAM COMPONENTS		LAB	LECTURE	HYBRID	TOTAL	NOTES
Gas Metal Arc Welding (GMAW):						
Perform safety inspections of equipment and accessories	0	3			3	
Makes minor external repairs on equipment	1	2			3	
Sets up for GMAW-S operations on carbon steel	1	2			3	
Operates GMAW-S equipment on carbon steel	2	1			3	
Short Circuit Transfer 1F, 2F, 3F & 4F Tee joints 3/16" up to 1/4" Pl.	8	1			9	
Short Circuit Transfer 1F, 2F, 3F & 4F Lap joints 3/16" up to 1/4" Pl.	8	1			9	
Short Circuit Transfer 1G& 2G Butt Joints 3/16" up to 1/4" Pl.	5	1			6	
Short Circuit Transfer 3G& 4G Butt Joints 3/16" up to 1/4" Pl.	11	1			12	
Short Circuit Transfer Angle Iron to Plate Connection 2F	8	1			9	
Short Circuit Transfer Angle Iron to Plate Connection 3F and 4F	8	1			9	
Short Circuit Transfer 3G Vee Butt Joint 3/18" up to 1/2" Pl.	16	2			18	
Short Circuit Transfer 2F, 3F & 4F Tee joints 12 ga or thinner	8	1			9	
Short Circuit Transfer 1F & 3F Lap joints 12 ga or thinner	5	1			6	
Short Circuit Transfer 2g & 3G Butt joints 12 ga or thinner	8	1			9	
Passes GMAW welder qualification test per drawing AWS EDU-1	8	2			10	
Axial Spray 1F & 2F Tee & Lap Joints 3/16" or thicker Pl	5	1			6	
Axial Spray 1G Vee Butt Joint 3/16" or thicker Pl.	2	1			3	
Pulse Spray 1F,2F,3F,& 4F Tee Joints 10 ga.	8	1			9	
Pulse Spray 1G Vee Butt Joint 10 Ga.	2	1			3	
Passes practical knowledge written exam for the GMAW process	0	6			6	
Total	114	31	0	145	Average 2.4 months or 48 days excluding wknds and holidays	
***** Additional Information *****						
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*Summer Schedule: Classes will be held at normal times. During the summer they will be M-TH. There will be no class on Fridays						