

Welding Technology: Shielded Metal Arc Welding (SMAW)

#REF!



GIP CODE 48.0508

Students will learn theory and principles of operation of the Shielded Metal Arc Welding (SMAW) process. Hands-on, individualized instruction is emphasized. This course will train students to become proficient in welding all positions with the E6010 and the E7018 electrodes. Students will be prepared to take industry welding tests per AWS D1.1 Structural Steel for SMAW Welder Qualification.

OUTCOMES	Delivery Method	OE/OE (min 10 - max 28)
MATC Program Certificate: Shielded Metal Arc Welding	Enrollment Availability	Adults Only
AWSD1.1 3G Structural Certificate - SMAW	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	
Exam Materials for Industry Certifications	\$20.00	

Steel Toed Boots	\$30.00	
Total	\$457.00	

OPTIONAL PROGRAM MATERIALS	COST	NOTES
Additional Test Coupons	\$10.00	3/8" Plate Coupons, per each set
Additional Test Coupons	\$20.00	1" Plate Coupons, per each set
Total	\$30.00	

PROGRAM COMPONENTS	LAB	LECTURE	HYBRID	TOTAL	NOTES
SMAW I Shielded Metal Arc Welding					
Perform safety inspections of SMAW equipment and accessories	0	0	3	3	
Makes minor external repairs to equipment	1	0	2	3	
Setup for operations on carbon steel	1	0	2	3	
Operate the equipment	2	0	1	3	
E7018 1F, 2F, 3F & 4F Tee Joints	23	0	1	24	
E7018 1F, 3F, & 4F Lap Joints	17	0	1	18	
E7018 2F 18" Tee Joint	5	0	1	6	
E7018 1G Vee 18" Butt Joint	8	0	1	9	
E7018 2G Bevel & 3G Vee Butt Joints	11	0	1	12	
E7018 4G Vee Butt Joint	11	0	1	12	
E6010 1F, 2F, 3F & 4F Tee Joints	23	0	1	24	
E6010 1F, 2F, 3F & 4F Lap Joints	23	0	1	24	
E6010 1G & 2G Square Butt Joints	11	0	1	12	
E6010 3G Square Butt Joint	8	0	1	9	
E6010 4G Square Butt Joint	11	0	1	12	
Pass SMAW welder performance tests per drawing AWS EDU-1	12	0	3	15	
Passes practical knowledge written exam for the SMAW process	0	0	6	6	
Passes SMAW welder performance qualification test (3G limited thickness test plates) on carbon steel	13	0	2	15	
Total	180	0	30	210	Average 3.5 months or 70 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 only be M-TH. There will be NO class on Friday