

US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE

10/05/2015

VERSION

PAGE

v 001

1 of 4

Shielded Metal Arc Welding – Overhead Welding

PRIMARY DEVELOPER: Kevin Ridge, Welding Instructor, Henry Ford College

Project 4 - Specification and Print

Weld Type	Vee Groove Weld
Welding Process	SMAW
Position	Overhead
Material	1/4" Steel
Joint Type	Butt
Backing Option	CJP
Backing Material	

Polarity	DC+					
Electrode	E6010 3/32 and E7018 3/32					
Transfer Mode						
Tungsten Electrode						
Shielding Gas						
Flow Rate						
Cup Size						

Welding Procedure												
Weld Layers	Pass No.	Process	Filler Metal Classification	Filler Metal Diameter in (mm)	Current Amps	Current Type and Polarity	Wire Feed Speed	Volts	Remarks			
Stringer	root	SMAW	E6010	3/32	50a	DC+						
	fill	"	E7018	3/32	75a	"						
	cover	и	E7018	3/32	75a	u						







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VERSION PAGE

v 001

2 of 4

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Heat Treatment:

Preheat Temperature:

Post Heat Temperature:

Interpass Temperature: Quench between passes

Stress Relieving:

Technique: Butt Joint weld root pass with E6010 and fill/cover with E7018 till just over flush in

Overhead position

Number of Electrodes:

Additional Notes: Show instructor progress every 30 minutes, minimum.







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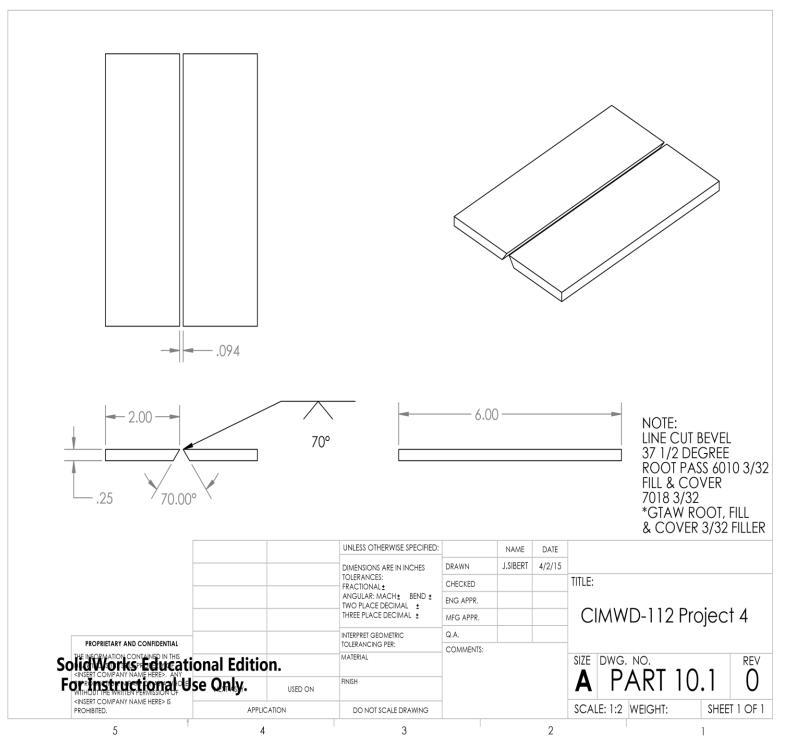
VERSION PAGE

v 001

3 of 4

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US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE

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VERSION PAGE

v 001

4 of 4

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