

US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE

09/09/2015

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### **Shielded Metal Arc Welding – Flat and Horizontal**

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

Project 3 – Specification and Print

Weld Type	2 Fillet and 1 PJP Groove				
Welding Process	SMAW				
Position	Horizontal				
Material	¼" Steel				
Joint Type	Tee, Lap, and Butt				
Backing Option					
Backing Material					

Polarity	DC+
Electrode	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	Tee	SMAW	E7018	3/32	75a	DC+					
	Lap	u u	E7018	3/32	75a	u u					
	Butt	u u	E7018	3/32	75a	"					







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### Shielded Metal Arc Welding – Flat and Horizontal

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Number of Electrodes: Whatever it takes Technique: 1 Stringer Bead on each Joint Initial/Interpass Cleaning: Chip and Brush

**Heat Treatment:** 

**Preheat Temperature:** 

**Post Heat Temperature:** 

Interpass Temperature: Quench between passes

**Stress Relieving:** 

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







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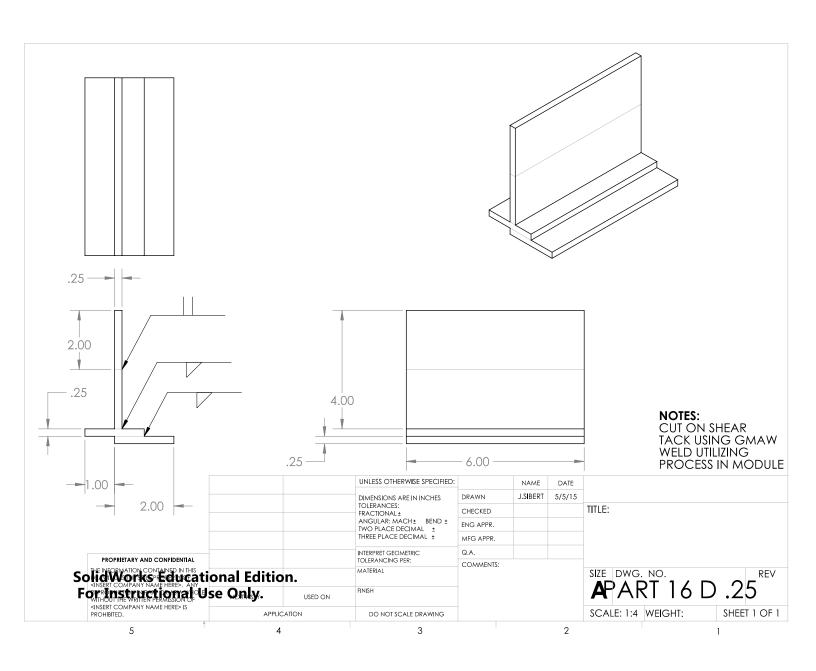
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