

US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE 10/07/2015

VERSION

v 001

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### **Gas Metal Arc Welding (Vertical and Overhead Welding)**

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

Project 1 – Specification and Print

Weld Type	Fillet Weld
Welding Process	GMAW
Position	Vertical
Material	1/4" Steel
Joint Type	Tee
Backing Option	
Backing Material	

Polarity	DC+				
Electrode	ER70s-6				
Transfer Mode	Short Circuit Transfer				
Tungsten Electrode					
Shielding Gas	75% Argon/25% CO2				
Flow Rate	25 cfh				
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		
Weave	Tee	GMAW	ER-70s-6	.035"		DC+	50	7.0			





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**Heat Treatment:** 

**Preheat Temperature:** 

**Post Heat Temperature:** 

**Interpass Temperature:** Quench between passes

**Stress Relieving:** 

**Technique:** Tee Joint use weave bead vertical up

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





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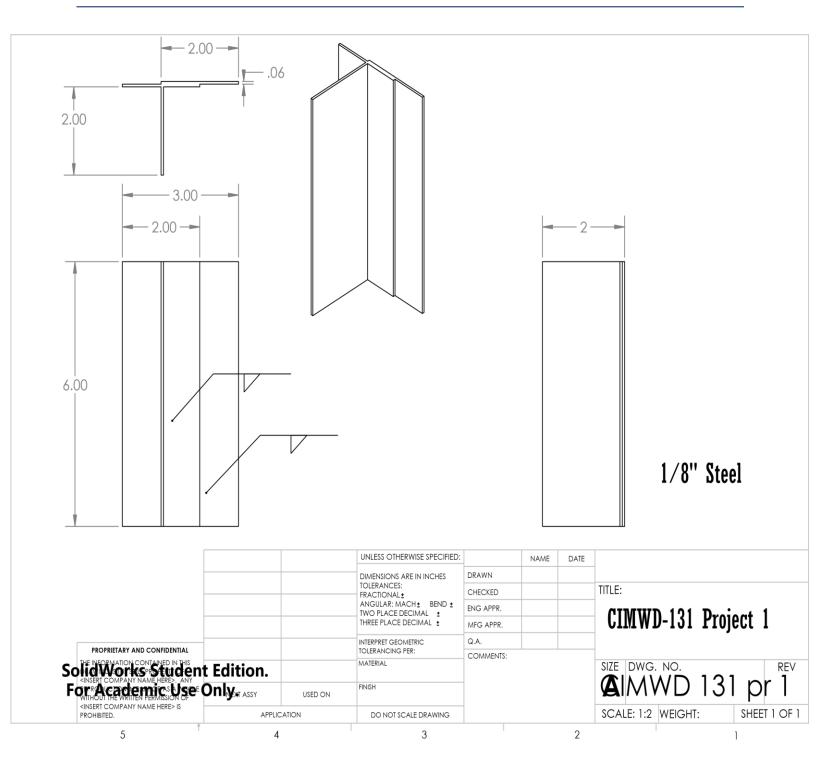
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