

US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE 10/07/2015

VERSION

v 001

PAGE

1 of 4

Gas Metal Arc Welding (Vertical and Overhead Welding)

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

Project 5 – Specification and Print

Weld Type	Vee Groove Weld			
Welding Process	GMAW			
Position	Vertical			
Material	1/4" Steel			
Joint Type	Butt			
Backing Option	PJP			
Backing Material	1/8" Steel			

Polarity	DC+
Electrode	ER70s-6
Transfer Mode	Short Circuit
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			
Stringer or Weave		GMAW	ER70s-6	.035		DC+	50	6				





US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE 10/07/2015

VERSION

v 001

PAGE

2 of 4

Gas Metal Arc Welding (Vertical and Overhead Welding)

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

Project 5 – Specification and Print

Heat Treatment:

Preheat Temperature:

Post Heat Temperature:

Interpass Temperature: Quench between passes

Stress Relieving:

Technique: Butt Joint filled with stringer beads or weave beads till just over flush in Vertical Up

position

Additional Notes: Show instructor progress every 30 minutes minimum.





RELEASE DATE

10/07/2015

VERSION

v 001

US DOL SPONSORED TAACCCT GRANT: TC23767

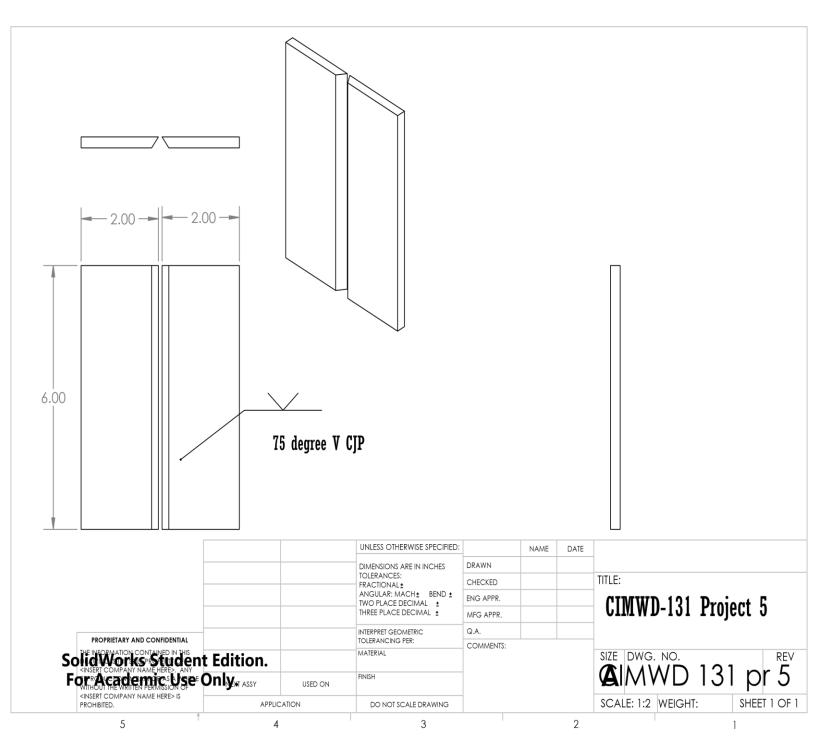
PAGE

3 of 4

Gas Metal Arc Welding (Vertical and Overhead Welding)

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

Project 5 - Specification and Print





US DOL SPONSORED TAACCCT GRANT: TC23767

RELEASE DATE

10/07/2015

VERSION

v 001

PAGE 4 of 4

Gas Metal Arc Welding (Vertical and Overhead Welding)

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

Project 5 - Specification and Print

SAFETY DISCLAIMER:

M-SAMC educational resources are in no way meant to be a substitute for occupational safety and health standards. No guarantee is made to resource thoroughness, statutory or regulatory compliance, and related media may depict situations that are not in compliance with OSHA and other safety requirements. It is the responsibility of educators/employers and their students/employees, or anybody using our resources, to comply fully with all pertinent OSHA, and any other, rules and regulations in any jurisdiction in which they learn/work. M-SAMC will not be liable for any damages or other claims and demands arising out of the use of these educational resources. By using these resources, the user releases the Multi-State Advanced Manufacturing Consortium and participating educational institutions and their respective Boards, individual trustees, employees, contractors, and sub-contractors from any liability for injuries resulting from the use of the educational resources.

DOL DISCLAIMER:

This product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

RELEVANCY REMINDER:

M-SAMC resources reflect a shared understanding of grant partners at the time of development. In keeping with our industry and college partner requirements, our products are continuously improved.

Updated versions of our work can be found here: http://www.msamc.org/resources.html.

