

Welding Program Summative Assessment

Technical Skill Attainment Assessment Summary

- Students will be assessed on each program outcome using a statewide common rubric
- Students must meet minimum performance standards for at least two welding processes, as well as all remaining program outcomes
- All outcomes are assessed in accordance with AWS EG2.0 or equivalent
- Students will receive a welding certificate documenting successful performance

Directions for Students

This summative assessment scoring guide will be used to determine if you have met the program outcomes at the end of the welding program.

After your instructor completes this scoring guide you will receive feedback on your performance including your areas of accomplishment and areas that need improvement.

Scoring Standards

You must achieve a “met” on all required criteria to demonstrate competence.

Scoring Guide		
	Program Outcomes and Criteria	Ratings
1.	Demonstrate industry-recognized safety practices	
	<ul style="list-style-type: none"> • you demonstrate proper inspection and use of personal protective equipment (PPE) 	Met Not Met
	<ul style="list-style-type: none"> • you demonstrate proper inspection and use of ventilation equipment 	Met Not Met
	<ul style="list-style-type: none"> • you demonstrate proper Hot Zone work area operation 	Met Not Met
	<ul style="list-style-type: none"> • you explain proper work actions for working in confined spaces 	Met Not Met
	<ul style="list-style-type: none"> • you explain proper use of precautionary labeling and MSDS information 	Met Not Met
	<ul style="list-style-type: none"> • you demonstrate proper inspection and operation of equipment used for each welding process and thermal cutting 	Met Not Met
	<ul style="list-style-type: none"> • your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met

COMMENTS:		
2.	Interpret welding drawings	
	<ul style="list-style-type: none"> • you interpret basic elements of a drawing or sketch 	Met Not Met
	<ul style="list-style-type: none"> • you interpret material specifications from a bill of material 	Met Not Met
	<ul style="list-style-type: none"> • you identify views in an orthographic projection 	Met Not Met
	<ul style="list-style-type: none"> • you interpret welding symbols to AWS standards 	Met Not Met
	<ul style="list-style-type: none"> • you interpret section drawings 	Met Not Met
	<ul style="list-style-type: none"> • you interpret tolerances 	Met Not Met
	<ul style="list-style-type: none"> • you fabricate a workmanship sample from a drawing or sketch 	Met Not Met
	<ul style="list-style-type: none"> • your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met
COMMENTS:		
3.	Produce shielded metal arc welds (SMAW)	
	<ul style="list-style-type: none"> • you perform safety inspection of welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you make minor external repairs to welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you set up for SMAW operations on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you operate SMAW equipment on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 1F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 2F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 3F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 4F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 1G position on carbon steel 	Met Not Met

	<ul style="list-style-type: none"> • you make groove welds in the 2G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 3G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 4G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you perform weld inspection 	Met Not Met
	<ul style="list-style-type: none"> • you make welds in accordance with the an applicable welding procedure specifications 	Met Not Met
	<ul style="list-style-type: none"> • your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met
COMMENTS:		
4.	Produce gas metal arc welds (GMAW)	Met Not Met
	<ul style="list-style-type: none"> • you perform safety inspection of welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you make minor external repairs to welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you set up for GMAW-S operations on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you operate GMAW-S equipment on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 1F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 2F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 3F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 4F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 1G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 2G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 3G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 4G position on carbon steel 	Met Not Met

	<ul style="list-style-type: none"> • you set up for GMAW (spray) operations on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you operate GMAW (spray) equipment on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds (spray transfer) in the 1F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds (spray transfer) in the 2F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds (spray transfer) in the 1 G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you perform weld inspection 	Met Not Met
	<ul style="list-style-type: none"> • you make welds in accordance with the an applicable welding procedure specification 	Met Not Met
	<ul style="list-style-type: none"> • your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met
COMMENTS:		
5.	Produce flux core welds	
	<ul style="list-style-type: none"> • you perform safety inspection of welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you make minor external repairs to welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you set up for FCAW-G operations on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you operate FCAW-G equipment on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you set up for FCAW-S operations on carbon steel (optional) 	Met Not Met NA
	<ul style="list-style-type: none"> • you operate FCAW-S equipment on carbon steel (optional) 	Met Not Met NA
	<ul style="list-style-type: none"> • you make fillet welds in the 1F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 2F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 3F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 4F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 1G position on 	Met Not Met

	carbon steel	
	<ul style="list-style-type: none"> you make groove welds in the 2G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make groove welds in the 3G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make groove welds in the 4G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you perform weld inspection 	Met Not Met
	<ul style="list-style-type: none"> you make welds in accordance with the an applicable welding procedure specification 	Met Not Met
	<ul style="list-style-type: none"> your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met
COMMENTS:		
6.	Produce gas tungsten arc welds (GTAW)	
	<ul style="list-style-type: none"> you perform safety inspection of welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> you make minor external repairs to welding equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> you set up for GTAW operations on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you operate GTAW equipment on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make fillet welds in the 1F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make fillet welds in the 2F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make fillet welds in the 3F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make fillet welds in the 4F position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make groove welds in the 1G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make groove welds in the 2G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make groove welds in the 3G position on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> you make groove welds in the 4G position on carbon steel 	Met Not Met

	<ul style="list-style-type: none"> • you set up for GTAW operations on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you operate GTAW equipment on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 1F position on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 2F position on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 3F position on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 1G position on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in the 2 G position on stainless steel 	Met Not Met
	<ul style="list-style-type: none"> • you set up for GTAW operations on aluminum 	Met Not Met
	<ul style="list-style-type: none"> • you operate GTAW equipment on aluminum 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 1F position on aluminum 	Met Not Met
	<ul style="list-style-type: none"> • you make fillet welds in the 2F position on aluminum 	Met Not Met
	<ul style="list-style-type: none"> • you make groove welds in 1G position on aluminum 	Met Not Met
	<ul style="list-style-type: none"> • you perform weld inspection 	Met Not Met
	<ul style="list-style-type: none"> • you make welds in accordance with the an applicable welding procedure specification 	Met Not Met
c	<ul style="list-style-type: none"> • your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met
COMMENTS:		
7.	Perform thermal cutting	
	<ul style="list-style-type: none"> • you perform safety inspections of thermal cutting equipment and accessories 	Met Not Met
	<ul style="list-style-type: none"> • you set up for oxyfuel cutting operations on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you operate equipment for oxyfuel cutting on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you set up for plasma arc cutting operations on carbon steel 	Met Not Met

	<ul style="list-style-type: none"> • you operate equipment for plasma arc cutting on carbon steel 	Met Not Met
	<ul style="list-style-type: none"> • you set up for air carbon arc cutting/gouging operations on carbon steel (optional) 	Met Not Met NA
	<ul style="list-style-type: none"> • you operate equipment for air carbon arc cutting/gouging on carbon steel (optional) 	Met Not Met NA
c	<ul style="list-style-type: none"> • your performance is in compliance with AWS EG2.0 or equivalent 	Met Not Met
COMMENTS:		

Overall Rating: _____

Student Name _____

Date _____

Evaluator's Signature _____

Date _____

Comments: