

Welding



B. I.	5.5 la 5.1 la 46 2024	O de al alda a Tima	8:00 a.m.
Date	Friday, February 16, 2024	Orientation Time	(CLOSED to instructors)
	WCSCC		Immediately following
Location	518 W. Prospect St	Contest Time	orientation
	Smithville, Ohio 44677		(CLOSED contest)
Scope of Contest	The skill performance assessment may include steel project(s), aluminum		
	project(s), stainless steel project(s) in various positions using a variety of filler		
	metals. Competitors will be involved in a series of stations testing various		
	aspects of welding.		
	Competitors must correctly use the welding equipment during the		
	competition. The contest coordinator or any judge may stop a competitor at		
	any section of the competition if they deem a competitor's manner to be		
	hazardous to either themselves or others. Such a stoppage shall be		
	documented as a warning. If the competitor is warned a second time, he or		
	she may be disqualified for that section of the competition.		
	As soon as the competitors enter the competition area, no communication shall occur between the competitors or between the competitors and anyone		
	else, except as directed by the contest coordinator or judges. Any such		
	communication may result in the competitor being disqualified from that		
	section of the competition.		
	Time limits will be established during the competition orientation.		
	Evaluation of the completed project will be judged visually. Nondestructive		
	and/or destructive tests may be used to complete the project evaluation.		
	Welding and cutting instructions will be provided to the competitors and		
	specified on the Welding Procedure Specifications (WPS) and prints provided		
	in the welding booths and near cutting stations.		
	Welding equipment used in the competition may be obtained from a variety		
	of manufacturers and may include transformers, rectifiers and/or inverters.		
	Filler metals will be detailed on the Welding Procedure Specification (WPS)		
	and/or prints.		
	Welds will be evaluated visually using a scoring system as established by the contest coordinator. Nondestructive and/or destructive tests may be used to		
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	complete the project evaluat		a amuisa natad
	Print assembly tolerance will		
	 If no print assembly dimensic is to be approximately locate 	<u>~</u>	
Testing	No	a basea on the print s	ISOMETHE VIEW.
Eligibility	1 contestant for every 50 paid m	nembers enrolled in pr	ogram
Clothing	Work Attire: Field specific work	•	
	that matches the service conditi	- ·	
	they are clean and professional		
	(no holes or overly soiled pants)		
	slip properties (steel toes may b		
	section below). Clothing should	be as such that it will r	not get caught in moving

	equipment or power tools. School uniforms may be worn if they meet the			
	above requirements with all identifiers covered.			
Provided by	Professional Resume – Typed Hardcopy			
Contestant	Emergency Medical Form (Contestants must have this to compete)			
	Leather welding jacket			
	Fireproof face mask			
	Hearing and/or ear protection Wolding holmet with appropriate filter plate/long and protective cover			
	Welding helmet with appropriate filter plate/lens and protective cover plate/lens in a flip or slide front. Auto darkening shields are permissible			
	Spare spatter and filter lenses/plates for arc welding helmet and oxyacetylene			
	goggles			
	Pocket calculator			
	Lead pencil and/or ballpoint pen			
	Soap stone with holder			
	Scribe with magnet			
	Combination square set			
	10-foot (3.1 meters) steel tape measure			
	Fillet weld gauge			
	16-ounce (.45 kilogram) ball peen hammer			
	Center punch			
	10-inch (254 millimeters) vise grips 6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers			
	6-inch (152 millimeters) needle nose pliers Chipping hammer with or without wire brush			
	Stainless steel wire brush			
Contest	Contest Skilled Performance	Aligned ODEW Manufacturing Career Field		
Contest Standards	Contest Skilled Performance Standards	Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes		
	Standards	Technical Content Standard Outcomes		
	Standards WF 3.0 – Read and interpret	Technical Content Standard Outcomes Outcome 6.1 Measurement and		
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	Standards WF 3.0 – Read and interpret blueprints	Technical Content Standard Outcomes Outcome 6.1 Measurement and Interpretation		
	Standards WF 3.0 – Read and interpret blueprints W 4.0 - Produce welds using a	Technical Content Standard Outcomes Outcome 6.1 Measurement and		
	Standards WF 3.0 – Read and interpret blueprints W 4.0 - Produce welds using a Shielded Metal Arc Welding	Technical Content Standard Outcomes Outcome 6.1 Measurement and Interpretation		
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(OFC) process to AWS QC10 standards.	Above Outcomes can be found in the following ODEW courses:
	176000 Gas Metal Arc Welding
	176001 Shielded Metal Arc Welding
	176002 Flux Cored Arc Welding
	176003 Gas Tungsten Arc Welding