

Welding



Date	Friday, February 23, 2024	Orientation Time	8:00 a.m. (CLOSED to instructors)
Location	Mahoning County Career & Tech Center 7300 N. Palmyra Rd Canfield Ohio 55506	Contest Time	Immediately following orientation (CLOSED contest)
Scope of Contest	 The skill performance assessment project(s), stainless steel project metals. Competitors will be involutional spects of welding. Competitions must correctly uncompetition. The contest coordinates and section of the competition hazardous to either themselved documented as a warning. If she may be disqualified for the As soon as the competitors ensures that occur between the complete shall occur between the complete, except as directed by the communication may result in section of the completion. Time limits will be established Evaluation of the completed pand/or destructive tests may Welding and cutting instructions specified on the Welding Proving the welding booths and ne Welding equipment used in the of manufacturers and may intervent for the specified on the Welding Proving the welding booths and ne Welding equipment used in the welding booths and ne Welding equipment used in the specified on the Welding Proving the welding booths and ne Welding equipment used in the specified on the Welding Proving the welding booths and ne Welding equipment used in the specified on the Welding Proving the welding booths and ne Welding equipment used in the specified on the Welding Proving the welding booths and ne Welding equipment used in the specified on the Welding Proving the test will be detailed of and/or prints. Welds will be evaluated visual contest coordinator. Nondes complete the project evaluates will be the project evaluates the project evaluates is to be approximately locates the proving the specified on the specified proving the spec	t(s) in various positions olved in a series of stati- se the welding equipm ordinator or any judge on if they deem a comp- res or others. Such a st the competitor is warr nat section of the comp- nter the competition a petitors or between th e contest coordinator the competitor being d during the competition project will be judged be used to complete t ons will be provided to cedure Specifications (ar cutting stations. he competition may be clude transformers, re- on the Welding Proced ally using a scoring syst tructive and/or destru- ion. be +/- 1/16" unless oth ons are given to orient	s using a variety of filler ions testing various hent during the may stop a competitor at betitor's manner to be oppage shall be hed a second time, he or betition. rea, no communication e competitors and anyone or judges. Any such disqualified from that on orientation. visually. Nondestructive he project evaluation. o the competitors and WPS) and prints provided e obtained from a variety ctifiers and/or inverters. ure Specification (WPS) mem as established by the ctive tests may be used to herwise noted. any project part, the part
Testing	No		
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	clothing required for t ons for the contest. Th	he work environment or his may include jeans if

Provided by Contestant	(no holes or overly soiled pants). Work shoes or boots with a hard sole or anti- slip properties (steel toes may be required – refer to Provided by Contestant section below). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered. Professional Resume – Typed Hardcopy Emergency Medical Form (Contestants must have this to compete) Leather welding jacket Fireproof face mask Hearing and/or ear protection 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) vise grips 6-inch (152 millimeters) needle nose pliers		
Contest Standards	Stainless steel wire brush Contest Skilled Performance Standards	Aligned ODE Manufacturing Career Field Technical Content Standard Outcomes	
	WF 3.0 – Read and interpret blueprints.	Outcome 6.1 Measurement and Interpretation	
	W 4.0 - Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process	
	W 5.0 - Produce welds using a Gas Metal Arc Welding (GMAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process	
	W 6.0 - Produce welds using a Fluxed Cored Arc Welding (FCAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process	
	W 7.0 - Produce welds using a Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process	

W 8.0 - Produce cut mate using an Oxygen Fuel Cut	
(OFC) process to AWS QC	Above Outcomes can be found in the
standards.	following ODE courses:
	176000 Gas Metal Arc Welding
	176001 Shielded Metal Arc Welding
	176002 Flux Cored Arc Welding
	176003 Gas Tungsten Arc Welding