

EQUIPMENT AND MATERIALS

1. Supplied by the technical committee:
 - a. All necessary welding equipment, filler metals, and base materials
 - b. All instructions, Welding Procedure Specifications (WPS), and prints
2. Supplied by the competitor: Only items listed below may be used during the competition. Using any tools other than those listed items below will result in a points deduction for each infraction throughout the competition. Tools should be transported in either a toolbox that does not exceed 9” tall by 14” wide by 22” length or an open 5-gallon bucket. Note: tool bags that meet the same size restriction and that do not have any interior and/or exterior pockets are allowed.
 - a. Hearing and/or ear protection
 - b. Welding gloves — full length (gauntlet) for SMAW, GMAW and FCAW
 - c. Welding gloves — appropriate for GTAW
 - d. Welding cap/beanie
 - e. Welding helmet with appropriate filter plate/lens and protective cover lens for tacking and welding; auto darkening filter plate/lens permissible. Spare filter plate and cover lens.
 - f. Cutting goggles — with shade 5 lens/cover lens for OFC/PAC; helmet with shade 5 capability permissible; face shield headgear with shade 5 permissible. Spare filter and cover lens.
 - g. Pocket calculator
 - h. Pocket flashlight
 - i. Fillet weld gauge — standard set
 - j. Lead pencil and/or ballpoint pen
 - k. Soapstone with or without holder or silver streak pencil
 - l. Scribe without magnet
 - m. Compass
 - n. Protractor
 - o. Combination square set or speed square
 - p. 10-foot (3.1 meters) minimum steel tape measure
 - q. 16-ounce (.45 kilogram) ball peen hammer
 - r. Center punch
 - s. Cold chisel
 - t. 11R or 10-inch (254 millimeters) vise grips
 - u. 6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers
 - v. 6-inch (152 millimeters) needle nose pliers – welpers permissible

- w. Chipping hammer
- x. Carbon steel wire brush
- y. Stainless steel wire brush
- z. Friction lighter (striker) and tip cleaner
- aa. All competitors must create a one-page resume. See “Resume Requirement” below for guidelines.