

WELDING CONTEST MATERIAL LIST

Tools:

ALL CONTESTS – To be furnished by the Contestant.

Welding Helmet (quick-change hood is acceptable)

Welding Gloves Leather Work Boots

Welding/Cutting Goggles Chipping Hammer

Pliers Tape Measure

Combination Square Soap Stone

[illegible]

Safety Clothing (leather jacket, sleeves, chaps, recommended)

(100% cotton coveralls are acceptable)

Safety Glasses (if safety approved prescription glasses are used, they must have side shields or safety glasses/goggles to fit over prescription glasses)

Metal Stock – Coupons dimensioned specific for Basic and Arc Welding

Materials: To be supplied by each contestant as listed for their contest.

Basic Welding:

Basic Welding Contest will be held at **MSU Northern** - 40 Contestants Maximum.

Materials Needed

Mild Steel: 4 Pieces 14 gauge 1 ½" X 4"

Mild Steel: 4 Pieces $\frac{1}{4}$ " X 1 $\frac{1}{2}$ " X 4"

Additional Mild Steel scrap for setting machine.

Arc Welding:

Arc Welding Contest will be held at **MSU-Northern** - 40 Contestants Maximum

Materials Needed

Mild Steel: 7 Pieces $\frac{1}{4}$ " X $1\frac{1}{2}$ " X 4"

Mild Steel: 2 Pieces $\frac{3}{8}$ " X 3 X 3" (bevel each piece 30 deg. on one edge, to make a groove with a 60 deg. included angle between the 2 pieces)

Additional Mild Steel scrap for setting machine

Combination Welding:

Combination Welding Contest will be held at **MSU-Northern** – 40 Contestants Max

Materials Needed

Supplied by Contest Technical Committee

FYI – 10 gauge plate will be used with GMAW & GTAW processes. 3/8" plate will be used in the SMAW & OFC processes.

Required materials are to be brought to the contest site at the time scheduled for competition. (**Arc and Basic Welding material should be stamped with the contestant number prior to leaving your school**).

The contest orientation session will allow for questions about machine settings, etc., but will not include practice. The time block scheduled for the contest includes time for familiarization as well as performance of assigned welds. Interpreting the drawings and laying out the pieces quickly will be important, leaving the maximum time for setting the machines and final welds.