

## WELDING CONTEST MATERIAL LIST

Tools ALL CONTESTS – Each contestant will bring their own Safety Glasses, Combination Square, Cutting Goggles, Soapstone, Tip Cleaners, Gloves, Pliers, Coveralls, and Welding Helmet.

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 ¼" X 1 ½" X 4"

Additional Mild Steel scrap for setting machine.

**Student ID numbers should be stamped on all pieces for identification and Judging prior to leaving your school.**

### **Arc Welding:**

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

#### Materials Needed

Mild Steel: 7 Pieces ¼" X 1½ " X 4"

Mild Steel: 2 Pieces ⅜" 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

Mild Steel: 2 Pieces ¼" X 4" X 5"

Mild Steel: 3 Pieces ¼" X 2" X 5"

Mild Steel Sch. 40 Pipe: 1 Piece 1" diameter black pipe 2 ½" long

**Aluminum:** 3 Pieces 1/8" X 1½" X 5"

Additional Mild Steel and Aluminum scrap for setting machine

Required materials are to be brought to the contest site at the time scheduled for competition. Combination and Arc Welding – stamping of student ID numbers on contest material for identification and judging will be done at the beginning of each contest (**Basic Welding material should be stamped 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.