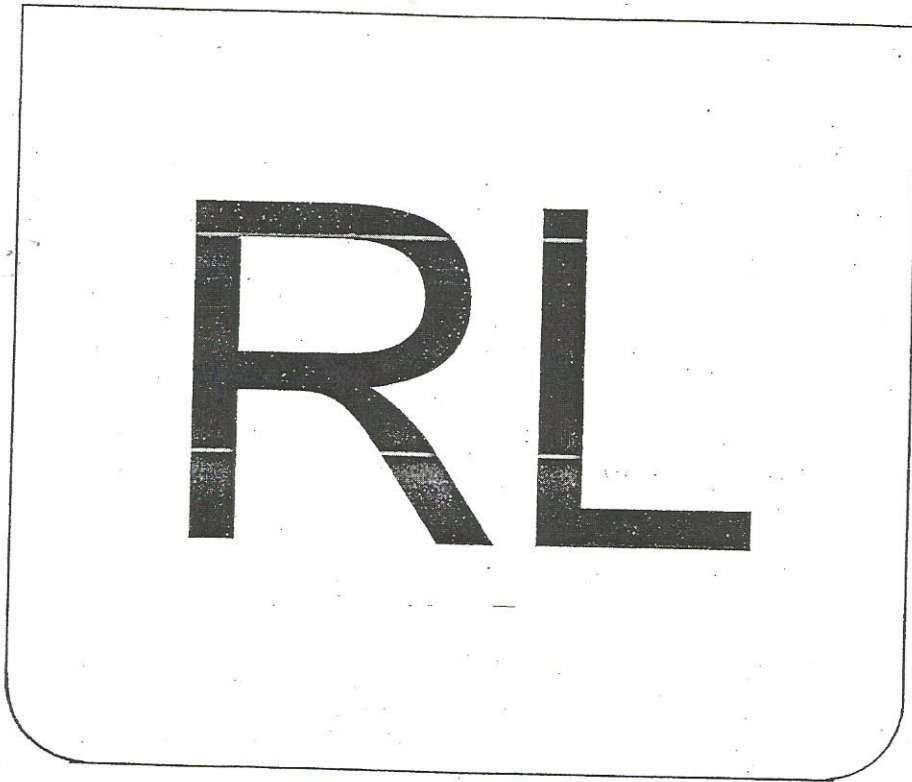


Introduction to Electric and Oxyacetylene Welding

The student must cut a 3 $\frac{3}{4}$ " square with the oxyacetylene torch, all 4 sides from a $\frac{1}{4}$ " flat piece of metal. The top of the piece should have square corners while the bottom should have rounded corners.



The student's two initials should be electrically welded into the flat metal. Refer to the illustration above. The initials should be square with the top and sides. A $\frac{1}{2}$ " border should be at the top and bottom. A minimum of a $\frac{1}{4}$ " space is allowed on the sides. The electrically welded beads should be of a proper temperature setting to allow for a well rounded bead.

No grinding, filing, touch-ups or painting is allowed. Chipping of the excess slag is allowed. A light coating of clean oil will prevent rusting.

Agriscience State Standards: 5A-9; 5B-3; 6A-2; 8E-10