

## HOW TO MAKE A COPPER ROSE

Instructions for making a replica of a rose using copper sheet.

**Pre-requisite:** the assembler will need a working knowledge of oxy-acetylene torch brazing and welding.  
(basic skills can be taught during a 1-2 hour introductory session)

**Materials required:**

- (1) ft<sup>2</sup> of 0.015" thick copper
- (1) welding rod 1/8" in diameter and 12" in length
- (1) brazing rod of 1/16" in diameter (2 pieces approx 3-4" in length)
- (1) leather punch
- (1) hammer or mallet
- (1) pair of scissors

### Steps:

1. Cut 4 circles from the copper. 2 circles should be approximately 3" in diameter, 1 circle at 2" in diameter, and 1 at 1½" in diameter.
2. From the remaining copper, cut out two "leaves" approximately 3" in length (see figure 1).
3. To form the veins in the leaves, place a scrap welding rod on the table; place a leaf on the rod; and lightly hammer on the leaf until an imprint of the rod is visible on the leaf (see figure 1).
4. Find the approximate center of the circles and punch a hole in each one using the leather punch.
5. Using the scissors, cut slots of varying width from the outside circumference of the circles to approximately 1/8" from the punched hole on all of the circles except for 1 of the 3" diameter circles (see figure 2).
6. Using the scissors cut the last 3" circle into the shape of the letter "Y" (see figure 2).
7. Attach each leaf to a small piece of brazing rod (approx. 3-4" in length) and attach the leaf / rod assembly to the welding rod "stem" (see figure 3).
8. Place the stem into a vice with approximately 1" of the stem exposed.
9. Take the "Y" shaped disk and, through the punched hole, insert it onto the stem and braze into place (see figure 4).
10. Cool the freshly brazed part in water and place stem assembly back into the vice.
11. Slide the 3" disc down the rod until it is in contact with the first disc and repeat the brazing and cooling operations as stated in steps 9 & 10.
12. Slide the 2" inch disc down the rod until it is in contact with the second disc and repeat the brazing and cooling operations as stated in steps 9 & 10.
13. Repeat the same operation with the 1½" circle (see figure 5).
14. Starting with the 1½" circle, bend the rose petals upward to give a realistic appearance resembling that of a natural rose. Repeat with all of the disks (see figures 6 and 7).
15. The petals on the 3" disk should be curled slightly and bent downward to resemble the leaves of the rose.
16. Spray the final product with a clear plastic, to seal in the colors and prevent corrosion.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

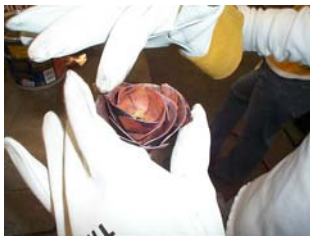


Figure 7

**NOTE:** In order to give a more realistic appearance of a rose, some experimentation should be performed with scrap copper. The higher temperatures achieved on the surface of the copper, followed by rapid cooling will give the coloration of many different shades of red and burgundy. Each petal of the rose should be heated and cooled separately to achieve the desired color.