

## **Copper Piping Assembly**

**Objective:** To acquire the knowledge and skills necessary to measure cut and assemble copper pipe and fittings.

### **Prerequisites:**

Observe Video: Soldering Copper Tube and Fittings  
Pipe Fitters Handbook Section 2 assignment.  
Instructor demonstration  
Observe all safety precautions and use appropriate PPE.

### **Procedure:**

1. Study piping diagram.
2. Sketch shop drawing with material list
3. Perform mathematical calculations for offset, setback and fitting allowances.
4. Gather tools and materials. Have fire extinguisher at hand.
5. Cut and solder copper tube and fittings with 95/5 solder.
6. Perform pressure test. (60 psi)
7. Submit your work for assessment.

### **Assessment:**

Submit work to instructor for inspection and testing. Document your work in your electronic portfolio with links, videos or pictures as appropriate.