

Photo Frame

Refrigeration



Photo Frame

- Provided materials:**
- | | |
|-------------------|--------------------|
| 1. Gloves | 6. Bending jig |
| 2. Glasses | 7. Tubing bender |
| 3. Copper tubing | 8. Camera and film |
| 4. Tubing cutter | 9. Tag and wire |
| 5. Measuring tape | |



Safety First.

Before you begin, put on your gloves and safety glasses.

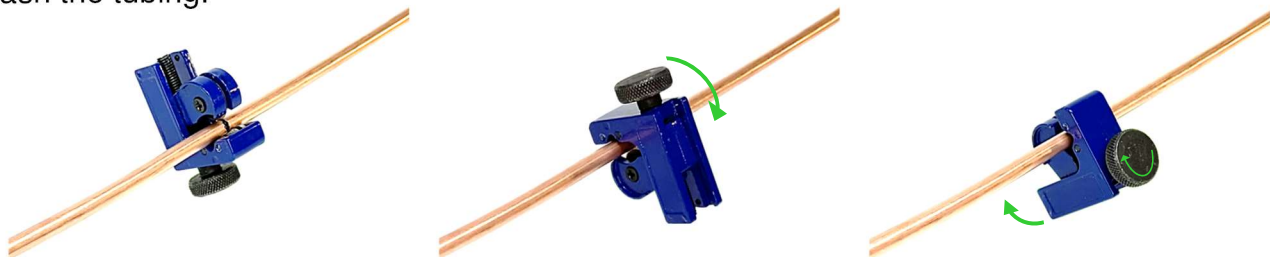
1. By hand, roll out a straight section of the soft copper tubing. Measure and mark a line at 23" along the tubing with a felt pen.



2. Place the tubing cutter over the marked line. Turn the knob on the cutter clockwise until the tubing is securely between the rollers and the cutter. Do not overtighten the cutter.



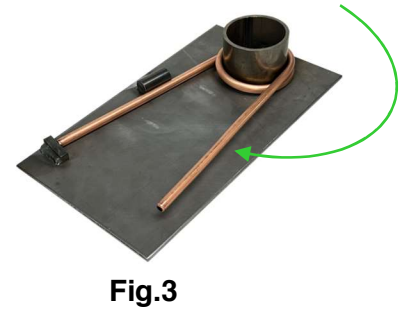
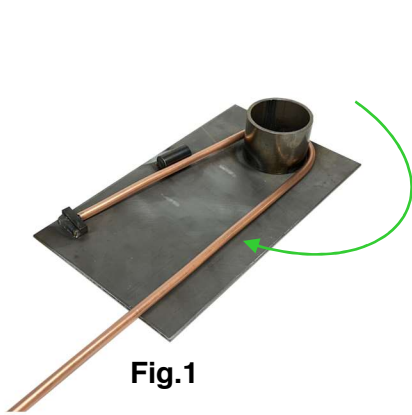
3. Carefully cut the tubing by rotating the cutter around the tube, turning the knob one half turn clockwise for each rotation of the tool. Do not apply excessive pressure with the knob, as this may squash the tubing.



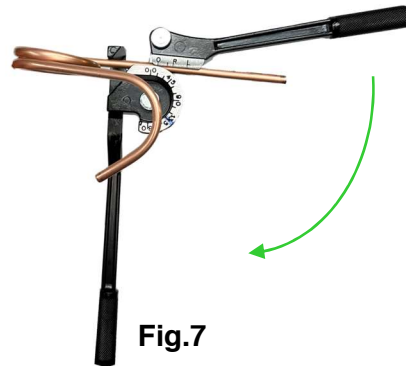
4. Place the cut length of tubing on the bending jig with one end against the lower stop. Place the free end between the side stop and the cylinder. The free end will extend beyond the upper end of the jig.



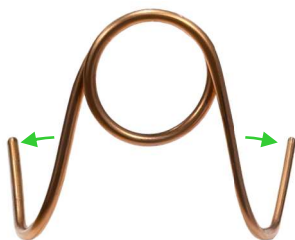
- By hand, bend the free end of the tubing to the right around the cylinder until it points toward the lower end of the jig (Fig. 1). Continue to bend the free end of the tubing to the left around the cylinder until it points beyond the upper end of the jig (Fig. 2). Finish pulling the free end of the tubing to the right around the cylinder until it points toward the lower end of the jig again, mirroring the angle of the stabilized end (Fig. 3).



- Place the tubing bender over the copper tubing with the circle against the holding clamp and the free end of one leg against the handle angle markers (Fig. 4). The “0” handle angle mark must line up with the “0” angle mark on the former (Fig. 5). Bend the pipe until the 0 handle angle mark on the handle lines up with the 135 angle mark on the former (Fig. 6). Repeat for the other leg (Figs. 7 and 8).



- Splay the legs outwards slightly to ensure stability. Attach a tag to the frame using the provided tag wire, then follow the instructions to load the camera. Take a photo and display it on your frame!



Valve tags



Valve tags are used throughout the pipe trades to convey information about maintenance schedules, fluid properties, and hazards.



Follow this QR code to view the instructions in video form, or visit: www.youtube.com/@skillsalberta



Find PDF versions of these instructions at: skillsalberta.com/resources/try-a-trade-take-out



Try-A-Trade® Takeout Program

Activity: Photo Frame

V4

Skill Area: Refrigeration

CTS Cluster: TMT

Copper Tubing Photo Frame

Refrigeration Technology

Project

Students use refrigeration and air conditioning tools to measure, cut, and shape copper tubing into a functional photo holder.



Schooling

- Four-year apprenticeship.
- Red Seal Journeyperson.
- Start early with the Registered Apprenticeship Program (RAP) or explore options available through Career and Technology Studies (CTS).

Jobs

- Install and maintain industrial, commercial, and residential refrigeration, heating, and air conditioning systems.
- Average salary: \$80,126.00/year
- Average wage: \$38.22/hour

More information:



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Or visit:

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