

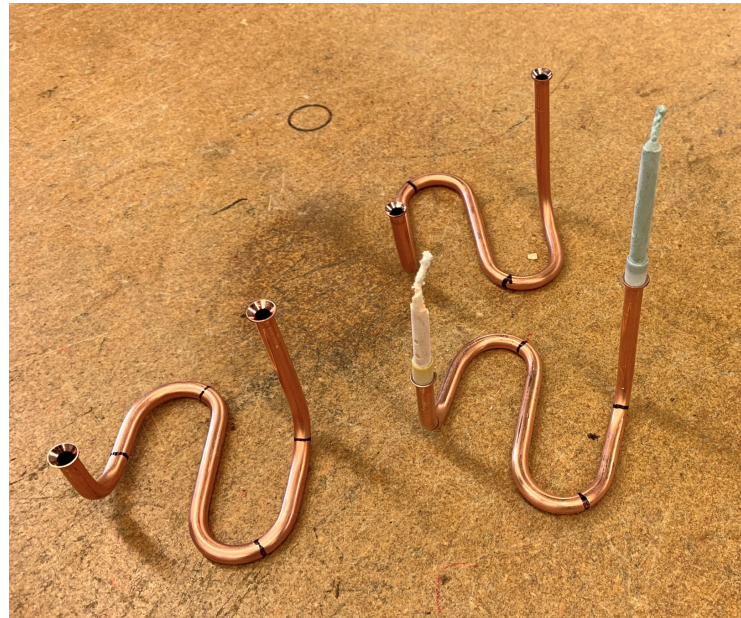


# Copper Tubing Candle Holder



Video Tutorial

The Alberta Pipe Trades College is a state-of-the-art facility open to everyone interested in advancing their career in the pipe trades. Whether you're a union or non-union apprentice, we offer a variety of courses for steamfitter-pipefitter, plumber-gasfitter and welder. Courses run throughout the year.



## What's Included

- 20 x 12" pieces of Copper Tubing
- 1 tubing bender
- 1 flaring tool
- Candles

## What You Will Need

- Tape Measure
- Marker Pen

Tag us in your projects! **#ABisSkilled**

# Let's Get to Work!

Did you rock these skills? Talk to your teacher to learn more about how you can showcase your skills at Skills Canada Alberta, alongside other students from across the Province!

1. Choose the end that you are going to measure from and mark it.
2. Mark the copper tubing with the given measurements ( $2 \frac{3}{4}$ ,  $4 \frac{1}{2}$ , 8,  $10 \frac{3}{4}$ , and the final length is 12")
3. Mark completely around the tube. This will aid when having to spin the project for different bends.
4. Insert the tubing into the benders. Make sure that the end that you marked from step 1 (starting point) is out to your left.
5. Line up the 0s on the benders and line your first bend mark ( $2 \frac{3}{4}$ ") with the 90 mark on the top bender arm

**SKILLED TRADE: PLUMBING**

# Let's Get to Work!

6. Continue to make the rest of the bends. The 180-degree bends are tight so moving the project could be troublesome. It will come out
7. Take extra care to ensure that you are bending the right way so that your project looks like the one below.
8. Use the flaring tool once all the bends are completed.
9. Insert one end of the project into the tool with approx. 1 dime width sticking out.
10. Move the flare bar so that your tubing end is in the correct place for flaring
11. Tighten the locking screw
12. Proceed to use the top handle to drive the flare cone into the tubing until flaring is complete
13. Spin the flare cone out and loosen the lock screw to slide the flare bar out and remove the project.
14. Follow the same steps for the other end of the project.

**SKILLED TRADE: PLUMBING**