

Basic Soldering

What you need

Soldering station (pre made) includes Iron Holder. Practice Track holder, and flux dish

Soldering Iron 25-35 watt

Solder strips 8 inch 0.022 dia Rosin-core

Electrical leads 6 inch 26 gauge stranded(Both ends Pre-stripped)

Flux (Liquid preferred)

Micro Brush (flux applicator)

Extension cords with power strips

Tables (2 stations per table)

Chairs (one per station)

Step-By-Step poster board

Practice tracks (old track sections glued to foam)

Scratch Brush

Wire nippers (Diagonal pliers)

Wire stripper

Zip ties 4 inch

Donation Jar

Safety Items

Paper towels

Burn ointment Aloe Vera (1 bottle)

Eye wash solution (2 bottles)

Water (6 bottles)

The set up

1. Set up the tables and chairs with a power strip on each table at the top – instructor side. (best to tape them in place)
2. Place two Soldering stations on each table
3. Place a soldering iron in the holder for each station and zip tie to the eye screw on the top of the station. Allow enough wire to permit the student to work with ease. (DO NOT POWER UP IRONS YET)
4. Place practice block in station holder, pour/scoop small amount of flux in flux bowl, place leads, solder strips and micro brush at each work station.
5. Wet the sponge on each soldering Iron holder
6. Set up instruction poster where students can easily see it (may require additional posters for more than one table)
7. Set up safety equipment, tools and spare supplies in a convenient location for instructor.

How it works

1. Just prior to opening clinic, power up soldering irons and check for proper heat. Clean iron tips.
2. Seat student at station.
3. Instruct student to read procedure poster and caution them about HOT irons
4. Make sure student understands the materials and the instructions and then let them start – assist as necessary
5. When student completes the project (lead soldered to rail) make sure the iron is securely in the holder and remove the Practice Block from the station holder and give it to the student. Let them know they should continue to practice at home.
6. Place a new Practice Block in the station holder, make sure proper supplies are available and seat the next student.