

# Weller Soldering Iron



Training:

Required

Reservation:

N/A

Please check with Library staff to confirm minimum age certification requirements to use this machine with supervision and without supervision as provided on the Equipment Usage Chart.

# Certification

To become certified on this piece of equipment you will need to attend a training class that lasts approximately 10 minutes. By the end of the class you will be able to:

- Set up the soldering iron

- Hydrate the sponge

- Tin the soldering iron

- Clean up the workstation

To sign up for a training session please see the training binder (available at the front desk).

# Reservation

There is no reservation for this equipment. It is only available on a first come/first serve basis.

# Reference Sheet

N/A

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## Materials and Software:

Weller Soldering Iron

Water

## Overview

Makers will learn how to:

- Set up the soldering iron
- Hydrate the sponge
- Tin the soldering iron
- Clean up the workstation

## Safety

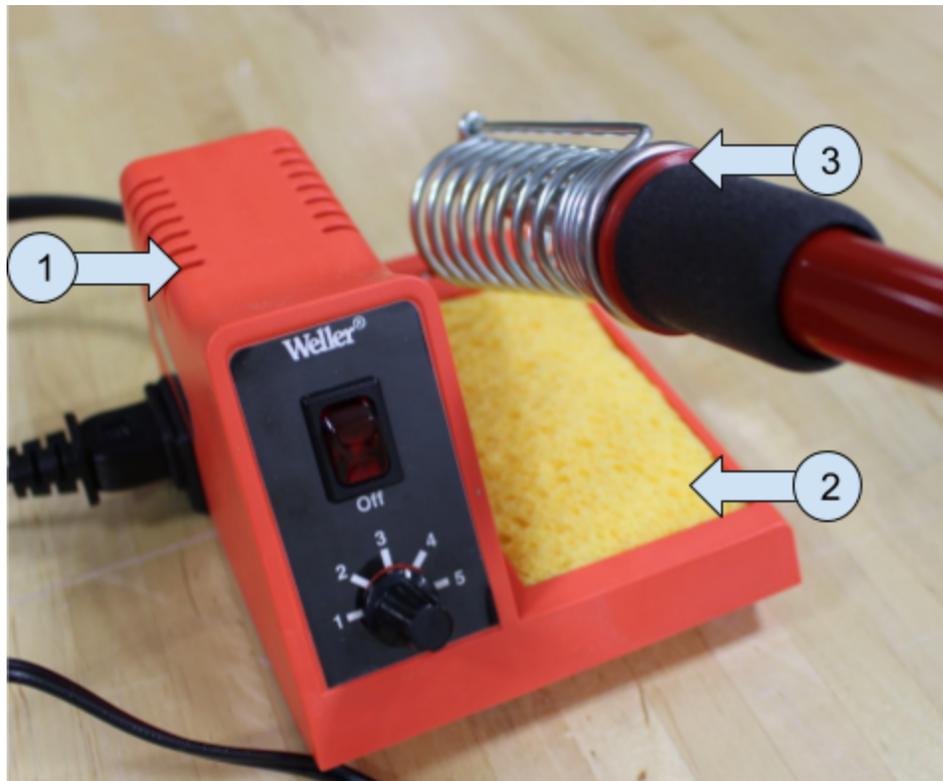
- The soldering iron heats up to above 620 °F and will burn if touched
- Unattended soldering irons can cause fires or damage items
- Non-Library Innovation Studio provided solder may contain lead and should not be used on this equipment.

## Set Up

Remove the station from the bin and plug it into an outlet.

## Equipment Layout

1. Control unit
2. Sponge
3. Soldering Iron



## Wet the Sponge

1. Before use the sponge should be thoroughly wetted.
2. Remove the dry sponge and wet it with water (Figure 1). Squeeze out the majority of the water. It should be damp to the touch but not dripping wet.
3. Replace the sponge into the Control Unit Holder



Figure 1 - Wetting the Sponge

## Power on the Unit

1. Turn the switch on and set the dial to 3 (Figure 2)
2. The soldering iron will take approximately 5 minutes to heat up. As long as the soldering iron is plugged in the maker must stay with the soldering iron.



Figure 2 - Powered on

## Tin the Tip

1. Clean the tip of the soldering iron by dragging it through the sponge (Figure 3).
2. Apply a small amount of solder to the tip of the iron. This will make applying solder easier in the future. In practice you should clean and tin the tip every few minutes.

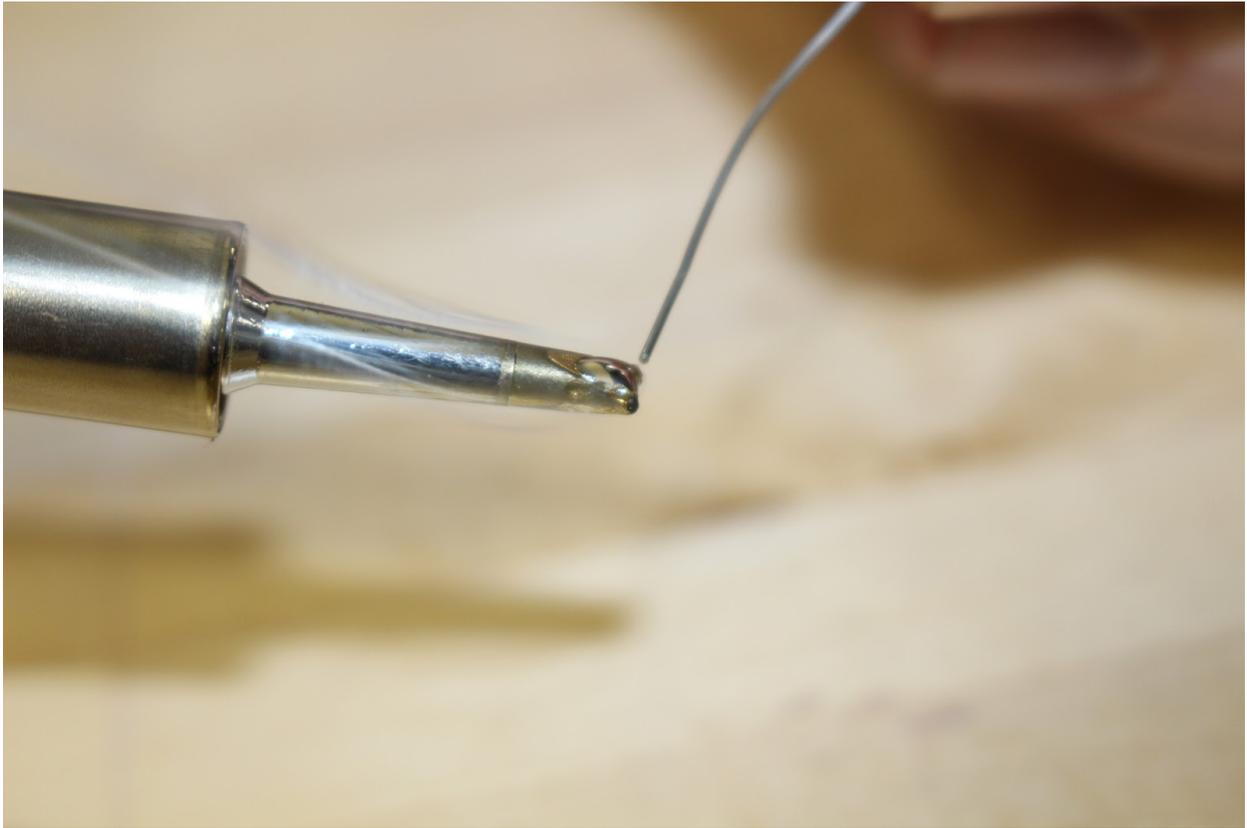


Figure 3 - Tinning the Tip

## Cleanup

1. Turn off the soldering iron and unplug it. Ensure the soldering iron is fully cooled before packing it away.

## Additional Resources

The following links may come in handy as you seek to expand your Arduino/Sparkfun skills

Adafruit - Tutorials, supplier, forum, project ideas

[www.adafruit.com](http://www.adafruit.com)

Sparkfun - Tutorials, supplier, project ideas

[www.sparkfun.com](http://www.sparkfun.com)

Arduino - Tutorials, supplier, forum, project ideas

[www.arduino.cc](http://www.arduino.cc)

# Troubleshooting

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