

Getting Started with Soldering

This training will cover the basics of soldering at the REEF. You will go over important safety practices and general tips and tricks to get you started.

What is Soldering?

Soldering is the process of joining two or more metal components by melting a filler metal at a lower temperature than the workpieces. The solder forms a conductive and mechanical bond as it cools and solidifies. This technique is commonly used in electronics to connect components to circuit boards, creating strong, reliable connections without damaging the parts themselves. It requires precision and the right tools, including a soldering iron, solder, and flux, to ensure proper electrical conductivity and stability of the joint.

Safety Precautions

Ensure Ventilation. Proper ventilation is crucial while soldering to avoid inhaling harmful fumes, so always remember to drag down the fume extraction snorkel to keep the air clear.

Safety Glasses. Wearing safety glasses while soldering protects your eyes from potential hazards like hot solder splashes, flux fumes, and debris that can be released during the process.

Clean Workspace. The tip of the soldering iron is extremely hot, so keeping a clean workspace helps prevent accidental burns, fires, or damage to nearby objects and ensures you can safely maneuver your tools without obstruction.

Guide Videos/Tutorials



Soldering Basics



Soldering Surface Mounted
Components



Remove Solder Techniques



Soldering Iron Maintenance



Soldering Through Hole
Components



Heat Shrink Insulation