

STANDARD OPERATING PROCEDURES

Electronic Soldering

DO NOT use this machine unless you have received authorization from the Shop Coordinator



Safety glasses must be worn at all times.



Closed-toe footwear required.



Tight fitting, disposable, latex-free gloves must be worn.



Long sleeves and long pants must be worn.



Local exhaust ventilation may be necessary.

Potential Hazards and Injuries

- Fumes (respiratory & skin hazard)
- Toxic metals (ingestion hazard)
- Hot surfaces (burn hazard)
- Molten metal (burn hazard)
- Fire

Pre-Operational Safety Checks

- Ensure workstation is free of ignitable materials.
- Don all required personal protective equipment.
- If operating near a water source, ensure soldering iron is connected to a GFCI.
- Inspect soldering iron power cord for burn through, fraying, or exposed wire.
- Ensure the fume extraction unit is operating properly before soldering.
- Thoroughly review SDS for the solder to be used.

Safe Practices During Operation

- Secure workpiece using vices or clamps.
- Keep soldering tip temperatures to 8000 F or below.
- Place fume extractor as close to work as practicable.
- Always return soldering iron to its stand. Do not lay it on workbench.
- Use pump top dispenser for any cleaning solvent.
- Place all wastes into a properly labelled container.

Ending Operations and Cleaning Up

- Switch off or unplug the soldering iron and fume extraction unit when work is completed.
- Always assume soldering irons are hot.
- Wipe down workstation with a damp disposable wipe. Place used wipe into the labelled waste container.
- Immediately wash hands and face with soap and water.
- Leave the work area in a safe, clean and tidy state.

DON'T

- Do not use faulty equipment. Immediately report suspect equipment.
- Avoid placing face directly over the work.
- Never solder on materials coated with lead paint, oils, grease, Teflon, or other materials that will produce hazardous vapors when heated.
- Never allow food or unsealed drink containers in work area.

SOP must be used in conjunction with an effective training program