

SOP (SOLDERING IRON)

SS-WHS-SAF-000

Authorised By:

Rev 1 [Publish Date]



TASK	Soldering Iron					
HAZARDS	Flying debris	<input type="checkbox"/>	Heat / cold	<input checked="" type="checkbox"/>	Electricity	<input checked="" type="checkbox"/>
	Cuts / laceration	<input type="checkbox"/>	Dust	<input type="checkbox"/>	Rollover	<input type="checkbox"/>
	Pinch / crush	<input type="checkbox"/>	Noise / vibration	<input type="checkbox"/>	Plant interaction	<input type="checkbox"/>
	High pressure	<input type="checkbox"/>	Other:	<input type="checkbox"/>	Other:	<input type="checkbox"/>
PPE REQUIRED						

PRE-START CHECKS

1. Inspect the soldering iron for visible damage, wear, or defects.
2. Check the power cord for cuts, frays, or any sign of wear.
3. Ensure the soldering iron stand is stable and in good condition.
4. Verify the tip of the soldering iron is clean and properly attached.
5. Choose the correct tip for your soldering needs.
6. Set up your work area in a well-ventilated space, free from flammable materials.
7. Prepare all materials to be soldered (e.g., wires) ensuring they are clean.
8. Use a damp sponge or brass tip cleaner to clean the tip.

SAFE OPERATING PROCEDURE

1. Plug in the soldering iron and allow it to heat up to the desired temperature.
2. Use the damp sponge or brass tip cleaner to clean the tip again once hot.
3. Apply a small amount of solder to the tip to tin it, which will help improve heat transfer.
4. Hold the soldering iron like a pen, maintaining a comfortable grip.
5. Heat the joint to be soldered with the tip, and then apply solder directly to the joint, not the tip of the iron.
6. Let the solder flow around the joint and remove the iron while keeping the solder in place.
7. Avoid moving the components until the solder has cooled and solidified.
8. Clean the tip with a damp sponge or brass tip cleaner as needed.
9. Turn off the soldering iron when not actively soldering to prevent overheating and unnecessary wear on the tip.

POST-OPERATION PROCEDURE

1. Turn off the soldering iron immediately after use and unplug it.
2. Clean the tip with the damp sponge or brass tip cleaner, and then apply a small amount of solder to 'tin' the tip before storage.
3. Allow the soldering iron to cool completely before handling further or attempting to store it.
4. Once cool, store the soldering iron in a safe, dry place, preferably in a holder to prevent the tip from encountering surfaces that could be damaged.
5. Report any defects or problems noted during use or inspection.
6. Document the maintenance and usage log, if applicable, for future reference and compliance.