

Torch Soldering Certification

Student:

Trainer:

Date:

Version: 0.1.0 - 2020-11-03

Certification required for: Fume Extractor (Jewelry Studio), Large Crock Pot (Jewelry Studio), Small Crock Pot (Jewelry Studio), Smith NE180A Acetylene Torch (Jewelry Studio)

Training Check-Off List:

Studio Anatomy

All tools and their appropriate uses can be properly identified.

- Acetylene Air Torch
- Butane Torches
- Electric lighter and Flint Lighter
- Soldering Surfaces (solderite, pumice, charcoal, etc.)
- Air Vent
- Pickle Pot Station & tools
- Soldering Hand Tools & Solder Types

Pre-Operation

- Safety precautions are followed - safety glasses, hair tied back, sweatshirt ties and other loose clothing is secured and out of the way, close toed shoes, etc.
- Acetylene tank has been turned on with appropriate pressure
- Ensure quenching dish is full
- Electric Lighter is turned ON
- Air Vent is ON and positioned appropriately
- Pickle Pot is plugged in and turned to HIGH
- Ensure neutralizing solutions are full

Operation

- Appropriate torch and soldering surfaces are chosen for scope of project
- Torch is used with correct technique
- Pieces are quenched after soldering
- Pickle is used appropriately with COPPER tongs only
- Pieces are neutralized correctly after pickling

Post-Operation

- Torch is turned OFF and pressure valve closed
- Electric Igniter is turned OFF
- Pickle Pot is turned OFF and UNPLUGGED
- All work areas are tidied and tools put away
- Air Vent is turned OFF
- Flux jar is fully closed and sealed
- All hand tools are cleaned of flux and debris

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- Solder is stowed in appropriate tin and put away
- All projects are removed from the pickle pot
- Slate work table is cleaned with a wet rag
- If necessary, quenching and neutralizing dishes are re-filled

Lockout/Tagout Procedure

Student imparts: Tool unplugged and plug wrapped in safe/visible location, tag filled out and

posted, front desk notified (if on site) and shop lead emailed immediately.

Pass/Fail: _____

Comments:

Student Signature: _____ **Date** _____

Certifier Signature: _____ **Date** _____



Certifier: Please scan this QR Code to email info@claremontmakerspace.org, and include a list of students who have passed this test.

Then, return this form to the front desk (even if the student failed!).