A qualified user should be able to:

- Identify personal safety hazards associated with the tool and what precautions are taken to prevent an accident from occurring.
- Identify hazards to the tool and what precautions are taken to prevent an accident from occurring.
- Operate the tool safely and proficiently.
- Recover from simple errors.
- Demonstrate knowledge of the processes performed with the tool.

**CVC EVAPORATOR**

- **Personal Safety Hazards**
  - High Voltage - The CVC Evap employs voltages that are dangerous and may be fatal to personnel. Do not attempt to defeat protective interlock systems.
  - Implosion - Face shield must be worn when operating the evaporator in case of implosion of the glass bell jar.
  - High Temperatures - Parts of the system may be hot after a deposition.

- **Hazards to the Tool**
  - Vacuum system is manually operated—Make sure both Hi-Vac valves are closed before venting.
  - Failure to clean up chamber after use.
  - Do not lift bell jar beyond the top of the guide posts.

- **Operating Tool**
  - A qualified user should be able to:
    - Vent the system
    - Load wafers
    - Load boats correctly
    - Complete a deposition sequence
    - Calculate approximate deposition times
    - Pump down the system
    - Shut-down system
  - Reservations - If not present at stated start time, tool is reserved for 15 minutes and is then considered open for general use.

- **Simple Errors**
  - Failure to put pellet in boat.
  - Failure to set holder in right position.
  - Failure to replace 2x3” glass viewing slide.

- **Processes**
  - Certified users should be knowledgeable with the basics of vacuum system operation.