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.

**Personal Safety Hazards**
- **High Voltage** – This unit has hazardous voltages inside. Do not operate with the covers off.
- **Compressed Gases** – This system uses compressed argon gas. Please read and understand the MSDS before using.

**Hazards to the Tool**
- **Excessive Deposition Times** - Sputter runs should not last for more than 3 minutes.

**Operating Tool**
- A qualified user should be able to:
  - Load and pump down the chamber
  - Set up and perform a sputter run
  - Shut the system down
- **Reservations** – If not present at stated start time, tool is reserved for 15 minutes and is then considered open for general use.

**Simple Errors**
- If the unit does not pump down, make sure that the vacuum seals are clean and that the lid and glass jar are well seated.
- If no gold is deposited, make sure that the pressure and current are correct and that you are using the Sputter mode. Also check that the target in the lid has not worn through.

**Processes**
- Certified users should be familiar with typical materials, powers, pressures, gas flows, and deposition rates of common materials.

**Appropriate Uses of the Tool**
- Sputter runs should not last for more than 3 minutes and are intended for SEM sample preparation only.