

R·I·T SEMICONDUCTOR AND MICROSYSTEMS FABRICATION LABORATORY

GCA 6700 STEPPER CERTIFICATION CHECKLIST

How can a user hurt themselves? How can a user hurt the tool?

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.

GCA 6700 STEPPER

- **Personal Safety Hazards**
 - Laser Safety – Lasers are used in the GCA stepper, which employs visible violet and red light. No invisible or otherwise harmful radiation is emitted.
 - Mechanical Hazards – Drive assemblies have sufficient power to cause injury. Keep hands, fingers, clothing and tools clear of moving parts.
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- **Hazards to the Tool**
 - None if operated according to the operation manual.
- **Operating Tool**
 - A qualified user should be able to:
 - Load job parameters
 - Load a reticle
 - Load wafers
 - Measure lamp intensity
 - Execute a job, including first and second level shots.
 - Terminate a job.
 - Clear wafer from system.
 - Use RMS commands proficiently (especially to load, align and unload a reticle).
 - Reboot the system.
 - Distinguish between time and irradiance settings.
 - Fill out logsheet correctly
 - Reservations – If not present at stated start time, tool is reserved for 15 minutes and is then considered open for general use.
- **Simple Errors**
 - Incorrect wafer positioning in cassette.
 - Clear auto-focus failure
 - Incorrect mask loading.
 - Prompts to type "CR" mean to enter RETURN, not to type "CR" and hit RETURN. Failure to do so will lock up the machine.
 - If a message on the screen says "Equipment in Use," reboot the machine.
 - Use DELETE, not BACKSPACE.
- **Processes**
 - Certified users should be familiar with the job parameters and general theory of operation.