

Laser Control Sign Catalog

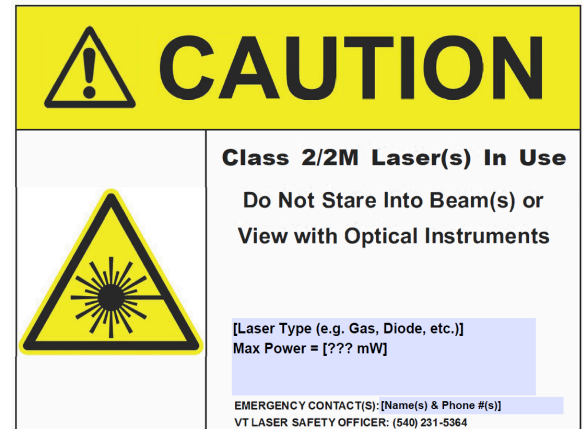
Displaying proper signage is one of the important aspects of a successful laser safety program. According to ANSI Z136.1 *Safe Use of Lasers*, laser warning signs should be posted around Class 2M and 3R laser areas, and are **required** to be posted around all Class 3B and 4 laser areas. Additionally, when Class 3B and Class 4 lasers are being serviced or receiving maintenance of any kind, NOTICE signs are required to be posted.

Signs can be purchased directly through HokieMart at this link: [HokieMart Laser Signs](#)

Class 2 & 2M Signs: ANSI Z136.1 indicates that laser area warning signs should be posted around Class 2 & 2M laser areas. Class 2/2M lasers can be hazardous to the eyes if someone deliberately stares into the beam or uses optical aids.

- **Requirements:**
 - Laser hazard symbol
 - "CAUTION- Laser Radiation- Do Not Stare into Beam or View Directly with Optical Instruments"
 - The class & type of laser
 - Warning signs on doors are not required.

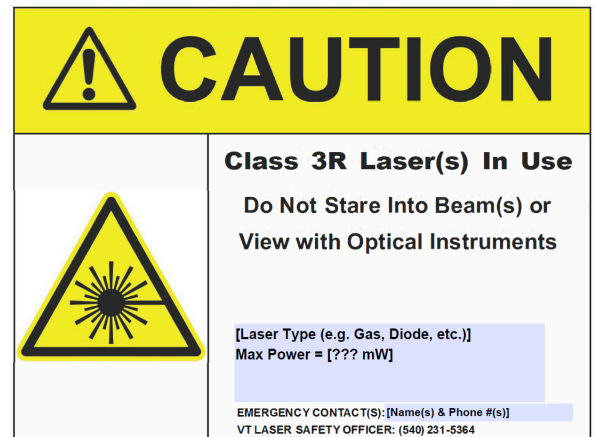
**** Generate your own here:** [Class 2 Caution Sign Template](#)



Class 3R Signs: A Class 3R laser may produce up to five times the emission limit for Class 1 or Class 2 lasers. Visible continuous lasers in Class 3R are limited to 5 mW. Class 3R lasers have low-to-moderate risk and are hazardous for direct intrabeam viewing, especially with optical aids.

- **Requirements:**
 - Laser hazard symbol
 - "CAUTION- Laser Radiation- Do Not Stare into Beam or View Directly with Optical Instruments"
 - The class & type of laser
 - Entrances to laser areas must be posted with a warning sign.

**** Generate your own here:** [Class 3R Caution Sign Template](#)



Class 3B Signs: A Class 3B laser is hazardous if the eye is exposed directly, but diffuse reflections such as from paper or other matte surfaces may be harmful. Continuous lasers in the wavelength range from 315 nm to far infrared are limited to 0.5 W. For pulsed lasers between 400 and 700 nm, the limit is 30 mJ.

**** Signs are required for Class 3B and Class 4 lasers during maintenance, servicing, and similar situations.**

- **Requirements:**
 - Laser hazard symbol
 - "WARNING- Laser Radiation- Avoid Direct Exposure to Beam"
 - The class and type of laser
 - Doors leading to the laser area shall be posted with warning signs.

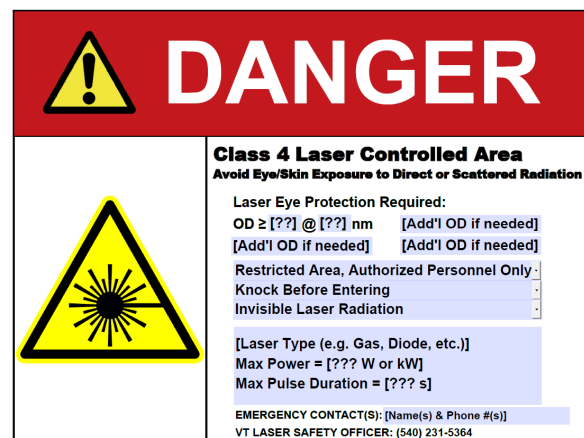
**** Generate your own here: [Class 3B Warning Sign Template](#)**



Class 4 Signs: Class 4 lasers are high powered and are hazardous to view at all times and may cause devastating and permanent eye damage. Class 4 lasers may also have sufficient energy to ignite materials, and may cause significant skin damage. Exposure of the eye or skin to both the direct laser beam and to scattered beams, even those produced by reflection from diffusing surfaces, must be avoided at all times. In addition, they may pose a fire risk and may generate hazardous fumes.

- **Requirements:**
 - Laser hazard symbol
 - WARNING or DANGER
 - **Non multi kW lasers:** "WARNING- Laser Radiation- Avoid Eye or Skin Exposure to Direct or Scattered Radiation"
 - **For multi kW lasers:** "DANGER- Laser Radiation- Avoid Eye or Skin Exposure to Direct or Scattered Radiation"
 - The class & type of laser
 - Appropriate warning signs must be posted on equipment and ALL doors leading to the facility.
 - Additional precautions or protective actions should be provided as needed.

**** Generate your own here: [Class 4 Warning Sign Template](#)**
[Class 4 Danger Sign Template](#)



Notice Signs: For temporary use when laser systems are under repair and the accessible laser radiation exceeds acceptable MPE.

**** Generate your own here: [Notice Sign Template](#)**

<i>NOTICE</i>	
	LASER REPAIR IN PROGRESS DO NOT ENTER EMERGENCY CONTACT(S): [Name(s) & Phone #(s)] VT LASER SAFETY OFFICER: (540) 231-5364