



# Laser Beam Specifications & Laser Safety Eyewear

Permit Holder: \_\_\_\_\_ Permit #: \_\_\_\_\_

Building: \_\_\_\_\_ Room #: \_\_\_\_\_

1. Type of Laser: \_\_\_\_\_ Class: \_\_\_\_\_

2. Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial # \_\_\_\_\_

3. Wavelength(s) (nm): \_\_\_\_\_

4. Mode: Continues Wave (CW), Single Pulse or Multiple Pulse

A. Continues Wave (CW)

- Power (Watts): \_\_\_\_\_

- Exposure Time (Seconds) (Time Factor in Table 2 of ANSI Z126.1 – 2007 will be used)

B. Single Pulse

- Pulse Energy (Joules): \_\_\_\_\_ Pulse Length (Seconds): \_\_\_\_\_

C. Multiple Pulse

- Pulse Energy (Joules): \_\_\_\_\_ OR Average Power (Watts) \_\_\_\_\_

- Pulse Length (Seconds): \_\_\_\_\_

- Pulse Rate (Hertz): \_\_\_\_\_ OR Pulse Count: \_\_\_\_\_

- Pulse Time Envelope (Seconds) (Time Factor in Table 4a of Z126.1 – 2000 will be used)

6. Gaussian Criteria (check one):  $e^{-1}$  (ANSI Z136.1) or  $e^{-2}$  (Manufacturers)

7. Beam Shape: Circular, Square, Elliptical or Rectangular

A. Circular or Square

- Major Axis Beam Dimension (Beam Size at Aperture Measured on the “Longest” Dimension) (millimeters):

\_\_\_\_\_  
- Major Axis Beam Divergence (Beam Divergence Measured on the “Longest” Dimension) (milliradians): \_\_\_\_\_

B. Elliptical or Rectangular

- Major Axis Beam Dimension (Beam Size at Aperture Measured on the “Longest” Dimension) (millimeters):

\_\_\_\_\_  
- Major Axis Beam Divergence (Beam Divergence Measured on the “Longest” Dimension) (milliradians): \_\_\_\_\_

- Minor Axis Beam Dimension (Beam Size at Aperture Measured on the “Shortest” Dimension) (millimeters):

\_\_\_\_\_  
- Minor Axis Beam Divergence (Beam Divergence Measured on the “Shortest” Dimension) (milliradians): \_\_\_\_\_

8. List of Optical Density (OD) @ Wavelength on the Laser Safety Eyewear used for this Laser

\_\_\_\_\_  
\_\_\_\_\_

Remarks \_\_\_\_\_

**Please send the completed application form to: Radiation Safety ([RadSafety@uwo.ca](mailto:RadSafety@uwo.ca)), Health, Safety and Well-being, Room 4159, Support Services Building.**