



LASER PERMIT

1. NAME: Moriena, Gustavo UTLSC Permit No.: 67/L/1
 Department: Environmental Health and Safety Position: Radiation Safety Officer
 Revision No. : 0

2. PERIOD: This permit is issued for the period of : 31-Jul-19 to: 30-Jul-22

4. EQUIPMENT

<u>Serial #</u>	<u>Manufacturer</u>	<u>Model Type</u>	<u>Description</u>	<u>Bldg Room</u>	<u>Output</u>	<u>Wavelength</u>	<u>Class</u>
01140031	Boss	LS1416	CO2	016:519	50 W	10600 nm	1
1441626	Laser Quantum	Gem 532 FC	Nd:YAG	082:305	500 mW	532 nm	1
24032-3	Fujifilm	VEVO LAZR-	Nd:YAG	005:1260	50 mJ	750 nm	1
67/L/1	Universal Lasers Systems	V-460	CO2	022:222	60 W	10600 nm	1
VLS460XXXX	Universal Lasers Systems	VLS4.60	CO2	087:425	50 W	10600 nm	1

5. LASER PERMIT CONDITIONS

01. The Permit Holder will ensure that the location of the class 3B and class 4 lasers is approved by the Radiation Protection Services (RPS) before use
02. The Permit Holder will inform RPS about any change in the location or design modifications of each class 3B and class 4 laser.
03. All class 3B and class 4 laser users must participate in the laser safety training organized by the University of Toronto Laser Safety Committee.
04. The Permit Holder will designate laser users for each class 3B and class 4 lasers, and ensure that all laser users are competent in the use and operation of that laser safely.
05. A list of authorized users, for every class 3B and class 4 laser registered under the permit, must be posted near the equipment.
06. The Permit Holder will ensure that all laser users have received training on the proper operation and hazards appropriate to the laser.
07. The Permit Holder will ensure that the Nominal Hazard Zone (NHZ) is defined for all lasers registered under this permit.
08. Appropriate laser warning signs or warning devices shall be posted to identify the NHZ.
09. The Permit Holder will ensure that appropriate laser safety goggles are always worn by all person situated in the NHZ, when exposure in excess of the Maximum Permissible Exposure (MPE) is possible.
10. The Permit Holder will ensure that all appropriate engineering, administrative and procedural controls are implemented for all lasers registered under this permit.
11. The Permit Holder will ensure that all non-beam hazards are identified and appropriate precautions, including training, engineering and administrative controls, are taken to control them.
12. The Permit Holder will ensure that Standard Operating Procedures and Alignment Procedures are developed, verified by the University of Toronto Laser Safety Officer, approved by the Permit Holder, posted near the lasers and are followed by laser users.
13. For decommissioning of class 3B and class 4 lasers, the Permit Holder will inform RPS, ensure that the laser was disabled so that it cannot be used and that all laser signs have been removed.
14. The Permit Holder will ensure that visitors of the laser labs are informed about all beam and non-beam hazards and that they wear the appropriate personal protective equipment.
15. The Permit Holder will inform RPS about the loan of any class 3B or class 4 lasers. The loan is permitted only to another Permit Holder, used in a similar laboratory by appropriately trained personnel.



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The Permit Holder must abide by the terms and conditions of this permit, the policies and procedures of the U of T Laser Safety Committee and the requirements of the Ontario Ministry of Labour.