Risk Assessment Form for Class 3B and 4 Lasers

Diameter or dimensions (mm)

Beam Divergence (milli-radians)

Class 3B and Class 4 lasers can cause serious eye injury if the beam is accidently viewed either directly or by specular reflections. Diffuse reflections of a high-powered CLASS 4 laser beam can cause permanent eye damage. High-powered laser beams, CLASS 4, can burn exposed skin and ignite flammable materials. Laser equipment can pose hazards associated with high voltage. Proposed experiments must be risk assessed to determine the hazards and risks involved. Based on the risk assessment the safety measures and risk management must be adhered to as set out in the laser guidance document.

S1	Assessor Name	Email:	As	Assessment Number			
Department/Room		Tel:	Da	Date of Assessment			
			•				
S2	DESCRIPTION OF THE EXPERIMENT INVOLVING LASER(S)						
	Please provide a brief description of the experiment						
S3	LASER SPECIFICATIONS:						
		Laser 1	Laser 2	Laser 3			
LASER CLASS 3B or 4							
Manufacturer							
Model							
Type of Emission CW or Pulsed							
Maximum Power (mW)							
Wavelength Range (nm or μm)							
Wavelength in Use (nm or μm)							
Bea	m shape (circular, square, ellipse)						
—							

S4	Hazards, Risk, and Co				
Hazar	Hazards Risk Controls				
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		□HIGH □MED □LOW			
S5	PERSONS WHO MAY E Name	BE AT RISK	Registered Laser Use	r VEC/NO	
	Name				
1			□YES □NO	∐N/A	
2			□YES □NO	□N/A	
3			□YES □NO	□N/A	
4			□YES □NO	□N/A	
5			□YES □NO □N/A		
CC	LACED CAPETY				
S8	LASER SAFETY	ntended to be used for th	e type of emission D L R N	A and the scal	le numher
List the laser safety googles intended to be used for, the type of emission D I R M, and the scale number stating the code LB for full or R for alignment protection.					
Manufacturer		Wavelength	DIRM	Scale No.	

9	EMERGENCY ACTION		
In eve	In event of an emergency it is important to understand the control measures listed below.		
Fire		 ✓ Switch off the power supply to the laser if it is safe to do so ✓ Do not put yourself in danger ✓ Activate the fire alarm ✓ As long as it does not compromise your safety you can attempt to extinguish the fire with the appropriate equipment provided ✓ Evacuate to an assembly point 	
Laser	Eye Injury	 ✓ If an accident occurs seek help from a colleague/LSO. ✓ Press the emergency button to disable laser systems ✓ Call 3929, to request the emergency services ✓ Even if you think your injury is very minor you should go to the Accident & Emergency, Royal Victoria Eye and Ear Hospital, Adelaide Road Dublin 2. Telephone (+353) 1 6644600 	
ALL A	CCIDENTS/INCIDENTS N	JUST BE REPORTED TO THE LASER SAFETY OFFICER, AND THE UNIVERSITY	

SAFETY OFFICER!

A list of trained first aiders is posted in the laboratory.

A list of emergency exits, fire extinguisher locations, eye wash location and assembly points are listed I the laboratory.

SIGNATURES

Responsible Person Signature	Date
Signature of Authorising Officer (Laser Safety Officer)	Date