

LABORATORY RISK (LOW-MEDIUM-HIGH)

Risk Level	Implications	Laboratory Procedures
High	<ul style="list-style-type: none"> SOP required Working alone prohibited 	<ul style="list-style-type: none"> Working on high voltage systems (greater than 750V by a trained professional) Work with acutely toxic, pyrophoric, water-reactive, self-reactive, self-heating chemicals, or Group A peroxide formers Work with corrosive gases Other tasks which based on hazard analysis are deemed to require more than one person for safety reasons Machines and power tools that may cause critical injury (e.g., lather, table saw) Open flame use Robots capable of lifting more than 25lbs Drones requiring Transport Canada approval
Medium	<ul style="list-style-type: none"> SOP required Working alone only allowed with complete SOP and working alone plan 	<ul style="list-style-type: none"> Operating high voltage systems (greater than 750V) Exposed energized electrical systems Use of any hazardous chemical in greater than 1L quantity Work with x-rays Working with Class 3B or 4 lasers Working with any equipment that has the potential to change temperature, pressure to create hazardous vapour Work with human subjects Working with designated substances Work with flammable gases Open source radioactive work Extreme temperature environments Work in isolated areas (field work) Working with biohazards Use of lifting devices (e.g., cranes, jacks) Work with robots capable of lifting between 15-25lbs or human cobots
Low	<ul style="list-style-type: none"> No SOP required May work alone with minimal precautions such as planned check-ins and access to a phone 	<ul style="list-style-type: none"> Anything else not mentioned in Medium or High

Notes:

- For more details on working alone and access to the Working Alone Plan, go to the [Safety Office Working Alone Guideline](#).
- The SOP Template is available on the [Safety Office Risk Assessment and SOP page](#).
- If your work falls under multiple risk levels, the highest level applies.