

LABORATORY SAFETY ORIENTATION CHECKLIST

CREATED:	09/02/2013	REVISED:	June 11, 2024
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Name: _____

Email: _____

Supervisor: _____

Room #s for key card access: _____

Start date: _____

A Laboratory Safety Orientation Checklist should be completed within one month of arriving in the laboratory.

Please reach out to Leanne Lucas, Safety Advisor – Science Activities: leanne.lucas@smu.ca with any questions.

Please provide a brief summary of the type of research/work that will be conducted:

Please check all items which are to be fully explained by you (laboratory supervisor or delegate), for which you will be providing training and/or for which you have written procedures.

1. SAFETY RESOURCES (mandatory)

Saint Mary's University Occupational Health & Safety website <http://www.smu.ca/about/occupational-health-and-safety.html> and the various resources within, including:

Orientation Booklet <https://www.smu.ca/webfiles/OHSOrientationBookletAugust2023.pdf>

Reporting Incidents and Injuries <http://www.smu.ca/about/ohs-reporting-incidents-and-injuries.html>

Safety Advisor, Science Activities <https://www.smu.ca/faculty-of-science/science-contact-us.html>

SMU Student Health Services <https://www.smu.ca/healthclinic/index.html> and <https://www.smu.ca/student-life/healthwellnesssupports/>

2. EMERGENCY PROCEDURES at Saint Mary's University (mandatory)

Mass Notification System <http://www.smu.ca/about/emergency-management.html>

Emergency Phone Numbers and procedures <http://www.smu.ca/about/ohs-fire-and-emergency.html>

Alerts and SMU Safe app <https://www.smu.ca/alert/>

3. BASIC LABORATORY SAFETY (mandatory)

Showed the location of the nearest:

Fire alarm pull station

Fire extinguisher (only to be used if trained)

Emergency exit and have been instructed as to the evacuation route

First aid kit and designated first aid provider(s)

Eyewash and emergency shower and was instructed how to operate them (Do not pull the handle of the safety shower during the orientation)

Provided instruction on proper lab attire <https://www.smu.ca/webfiles/SafetyPoster.pdf> and <https://www.smu.ca/faculty-of-science/personal-protective-equipment.html>

Instructed to not eat, drink, or apply makeup in the lab

Provided the following personal protective equipment (PPE) and instructed in its proper maintenance and use (select all that apply):

Disposable Gloves Chemical Goggles Lab Coat Face Shield Safety Glasses

Respirator (arrange for fit testing) _____

Hearing Protection, specify type _____

Other: _____

Provided instruction to not wear lab coats and gloves out of the designated lab area

Showed the location and purpose of Safety Data Sheets and other safety symbols and signage

Explained the importance of good personal hygiene and proper hand washing

Reviewed Saint Mary's University Lone Worker and Safe Walk Programs <https://www.smu.ca/webfiles/Chapter6-EmergencyPreventionPreparednessandResponse.pdf> (section 6.6) and <https://news.smu.ca/news/2024/1/25/keeping-campus-safe-security-at-smu>

Reviewed security measures: keep lab doors locked when no one is present, avoid remote areas while alone at off-peak times

Reviewed SMU Heat Stress Guidelines <https://www.smu.ca/about/heat-stress-guidelines.html>

4. CHEMICAL LAB SAFETY

Not Applicable

Provided instruction on the safe handling and storage of chemicals, and transportation of cryogenic and compressed gases (SWP #14) <https://www.smu.ca/faculty-of-science/science-work-instructions.html>

Provided instruction on the safe disposal procedures for chemicals

Provided instruction on the appropriate measures to take in case of a chemical spill

Provided instruction on safe chemical fume hood operation

Discuss risk of wearing contact lenses while working with some chemicals – splashes can have increased chemical exposure time with contact lens use

5. RADIATION LAB SAFETY

Not Applicable

Successfully completed mandatory Principles of Laboratory Radiation Safety training

Has been issued a Health Canada-issued radiation monitoring dosimeter

Given clear instructions regarding the lab rules (i.e. in-house procedures) for radioisotope work

Provided instruction on record keeping for radioisotopes as well as on their safe disposal

Provided instructed on the appropriate measures to take in case of a radioactive spill or exposure

6. LASER SAFETY

Not Applicable

Provided instruction on the safe handling of lasers

7. HAZARDOUS WASTE DISPOSAL

Not Applicable

Reviewed Saint Mary's University Hazardous Waste Disposal Policy (Work Instruction #13)
<https://www.smu.ca/faculty-of-science/science-work-instructions.html>

Provided instruction on the disposal procedures for: sharps, glassware, biohazardous waste, chemical waste, and radiation waste

8. BIOSAFETY

Not Applicable

Reviewed the Canadian Biosafety Standards and Guidelines <https://www.canada.ca/en/public-health/services/canadian-biosafety-standards-guidelines.html>

Shown the following A/V materials: Lab Biosafety 101

Shown the following A/V materials: Containment Level 2 Laboratories

Shown the following A/V materials: Working safely in a Class II Biological Safety Cabinet

<http://www.vidri.org.au/resources/working-safely-in-a-class-ii-biological-safety-cabinet/>

Provided instruction on the safe handling and storage of biohazardous materials

Reviewed the PHAC Biosafety in the Laboratory <https://www.canada.ca/en/public-health/services/canadian-biosafety-standards-guidelines/guidance/elementary-intermediate-secondary-school-classroom/document.html#appc>

Provided instruction on the PHAC Procedures to Minimize Aerosol Hazards <https://www.canada.ca/en/public-health/services/canadian-biosafety-standards-guidelines/guidance/elementary-intermediate-secondary-school-classroom/document.html#appe>

Provided instruction on the use of a biosafety cabinet and/or laminar flow hood

Provided instruction on the use of an autoclave

Provided instruction on the decontamination procedures for the techniques performed in the lab

Provided instruction on the appropriate measures to take in case of a biohazard spill, exposure or incident

9. ANIMAL CARE PROCEDURES

Not Applicable

Provided animal theory and practical training

Informed of the Occupational Health Program for Animal Related Activities

Provided instruction on the standard procedures in place for the animal facilities that will be used

Listed on supervisor's Animal Use Protocol by way of an amendment or submission of the form to the Animal Care Committee and have read the Animal Use Protocol

Please attach any additional training forms required by the Animal Care Facility

10. LAB EQUIPMENT SAFETY INSTRUCTION

Not Applicable

Received instruction on the safe use of the following laboratory equipment (check all that apply)

Acid / base baths	Rock cutting/machining	Compressed gases (handling & storage)
Glove box	Sharps	Cryogenics (dry ice, liquid nitrogen)
Hotplates/stirrer	High pressure apparatus	High voltage apparatus
Rotary evaporator	Microscope	Melting point apparatus
Centrifuge	Glassware washer	Cold storage (refrigerators and freezers)
Bunsen burner	Butane torch / heat gun	Vacuum manifold
Ultraviolet light	Drying oven	(Muffle) furnace

11. LAB SPECIFIC EQUIPMENT SAFETY INSTRUCTION

Not Applicable

Scanning Electron Microscope	X-ray fluorescence	Fluxer
Hydraulic press	Carbon coater	Critical point dryer
Sputter coater	Freeze dryer	Ultramicrotome
Lab microwave digester		

Other: _____

Other: _____

Other: _____

Other: _____

Other: _____

12. SAFETY TRAINING REQUIREMENTS

Not Applicable

Laboratory Supervisors must identify which safety training provided by the Safety Advisor, Science Activities † is required. Check if required.

Workplace Hazardous Materials Information System (WHMIS) †

Date Trained _____ Trainer _____ Certificate on File: Yes No

Hazardous Waste Management & Disposal †

Date Trained _____ Trainer _____ Certificate on File: Yes No

Laboratory Safety †

Date Trained _____ Trainer _____ Certificate on File: Yes No

First Aid (Please Specify Which Course): _____

Date Trained _____ Trainer _____ Certificate on File: Yes No

Transportation of Dangerous Goods

Date Trained _____ Trainer _____ Certificate on File: Yes No

Fire Extinguisher Training or General Fire Safety Training (Please Specify)

Date Trained _____ Trainer _____ Certificate on File: Yes No

Other (Please Specify): _____

Date Trained _____ Trainer _____ Certificate on File: Yes No

* Determined by Laboratory Supervisor

† If not trained at the time form is completed, indicate the date of the training session you registered for.



13. LABORATORY PERSONNEL AND SUPERVISOR ACKNOWLEDGEMENT

I _____ (lab supervisor's/delegate's name), have introduced to
_____ (student's name) all applicable points in this laboratory safety
orientation checklist and confirm that they have been fully understood.

Laboratory Personnel's Signature

Date

Laboratory Supervisor's Signature

Date

Once completed and signed by both the laboratory personnel and supervisor, **a copy of the checklist should be kept by the Laboratory Supervisor and emailed to Leanne Lucas, Safety Advisor – Science Activities:**
leanne.lucas@smu.ca

(Please feel free to attach any additional information)