

Chemical and Biological Engineering Undergraduate Laboratory Standard Operating Procedure

Laboratory Room Number: 1D25

SOP & ERP Creator: Kevin Carter 966-5329

Area Supervisor: Dale Claude 966-4707

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GENERAL INFORMATION

Known Hazards

List Physical Hazards:

Heavy Teaching apparatus equipment, Low pressure steam (15 psi), Medium Pressure Steam (30 psi), Fall hazard, Compressed air, Glass equipment, High voltage equipment, High Amperage electric generator, Compressed air, Steam Reboilers, Mechanical rotating arm, Small particulates, Hot Water (+60 °C), Unsecured equipment on tables, High pressure vessel, Implosion hazard, Heated exposed surfaces (+60 °C), hydrocarbon odor, ammonia odor, Chemical sensitizers,

List Chemical Hazards:

Flammable Compressed Gas, Inert Compressed Gases, Low pressure Caustic gas, Compressed Air, Flammable Liquids, Caustic solids, Caustic liquids, Acidic liquids.

List Biological Hazards:

Yeast

Safety Data Sheets Location

<http://ccinfoweb.ccohs.ca/msds/search.html>

Emergency Response Equipment Location

Equipment:	Location:
First Aid Kit	Center Chase in 1D25
Fire Extinguisher	By West Emergency Exit, Door leading to 1D04, Besides Door 1D25.3
Spill Kit	By chase closest to middle of lab
Emergency Gas Shutoff	Outside in hallway, left of south door in 1D25
Eyewash and Shower	In hallway past North Entrance in 1D25, Water hose in 1D25.1

Required Training

All Students are expected to take the safety course and read the Emergency Response Plan.

Required Personal Protective Equipment (PPE)

Standard laboratory attire: Long pants and closed-toe shoes, Hair back, No jewelry, Knee length Lab coats

Eye protection: Safety Glasses, Eye Shields

Personal Protective Equipment Available in 1D25

Gloves: Nitrile and/or latex gloves

Eye protections: Safety Goggles, Face Shield

Head gear: Hardhat

Other: Ear Plugs

STANDARD OPERATING PROCEDURE

The ChE 333, 414 and 424 Laboratory Manuals are the basis of the Student Standard Operating Procedure

Emergency Contact Information

NAME	TITLE & DEPARTMENT	WORK (OFFICE) PHONE
Kevin Carter	Technician	306-966- <u>5329</u>
Dale Claude	Laboratory Co-ordinator	306-966- <u>4707</u>
Dr. Mehdi Nemati	Department Head	306-966- <u>4769</u>
Richard Blondin	CBE Safety Committee Representative	306-966- <u>4711</u>
	Safety Resources	306-966- <u>4675</u>
Facilities Management Division	Customer Service Centre (FMD)	306-966- <u>4496</u>
Local Emergency Dispatch	Protective Services	306-966- <u>4496</u>
Municipal Emergency Responders	<ul style="list-style-type: none"> • Ambulance • Fire • Police 	911 or 9-911
Andrea Book	Chief Building Warden (CoE)	306-966- <u>5388</u>
Veronica Bendig	Building Coordinator (CoE)	306-966- <u>5104</u>