

**DEPARTMENT OF CHEMICAL ENGINEERING  
AND  
APPLIED CHEMISTRY**

**2014  
SESSION I  
IN-PERSON SAFETY TRAINING PROGRAM  
FOR  
NEW POSTGRADUATE RESEARCHERS (CHE 2222H)  
AND  
4<sup>TH</sup> YR UNDERGRADUATE THESIS STUDENTS**

**Tuesday, Sept. 2 9:10 a.m. to 11:45 a.m., MC-102**

	<b><u>Time</u></b>	<b><u>Speaker</u></b>
1. Introduction: purpose, duties, responsibilities, legal aspects	9:10-9:20	D.G. Allen
2. UofT Env. Health and Safety – Overview and programs	9:20-9:30	M. Drouin
3. Safe Handling of Liquid Nitrogen	9:30-9:50	G. Shirliff-Hinds
4. The Safety Program in the Department of Chemical Engineering and Applied Chemistry	9:50-10:40	B.A. Saville
<b>B R E A K</b>		10:40-10:50
5. WHMIS (Video)	10:50-11:15	
6. Safety Assessment, Use of Designated Substances	11:15-11:45	B.A. Saville

**2013  
SESSION II  
ON-LINE SAFETY TRAINING PROGRAM  
FOR  
4<sup>TH</sup> YEAR UNDERGRADUATE THESIS STUDENTS**

**<http://healthandsafety.chem-eng.utoronto.ca>**

1. \*Environmental Health and Safety – WHMIS Training (EHS 005) – required EH&S Course Registration
2. WHMIS – MSDSs
3. WHMIS – Labelling
4. Emergency Procedures and Personal Protective Equipment
5. Electrical Hazards, & IT Security
6. Handling Hazardous Chemicals
7. Equipment Design: materials selection, corrosion
8. Waste Disposal, Solvent Storage and Transportation
9. Working with Glass
10. Non-Ionizing Radiation: U.V., I.R., Microwaves
11. An Introduction to Bio-hazards
12. U.S. Chemical Safety Board Videos

\* EHS Training Course – Session Details attached.

Copy of EH&S course grade showing successful completion must be provided to Leticia Gutierrez (Secretary, JOHS Committee, WB-217, email: [leticia.gutierrez@utoronto.ca](mailto:leticia.gutierrez@utoronto.ca))

**SESSION III – EVALUATION EXAMINATION**

**Dept. of Chemical Engineering Students  
Dept. of Materials Science and Engg. Students  
Thursday, September 18, 2014, 1-1:30 pm, WB-116**

**2013  
SESSION II  
ON-LINE SAFETY TRAINING PROGRAM  
FOR  
NEW POSTGRADUATE RESEARCHERS (CHE 2222H)**

**<http://healthandsafety.chem-eng.utoronto.ca>**

1. \* Environmental Health and Safety – WHMIS Training (EHS 005)– required EH&S Course Registration
2. \* Environmental Health and Safety – University of Toronto Health and Safety Online Orientation (EHS 002) - requires EH&S Course Registration
3. WHMIS – MSDSs
4. WHMIS – Labelling
5. Emergency Procedures and Personal Protective Equipment
6. Electrical Hazards, & IT Security
7. Handling Hazardous Chemicals
8. Equipment Design: materials selection, corrosion
9. Waste Disposal, Solvent Storage and Transportation
10. Ventilation, Fumehoods
11. Pressure Vessels
12. Compressed Gases
13. Fire Extinguishers
14. First Aid
15. Ionizing Radiation
16. Chemical Reaction Hazards
17. Flashpoint
18. Toxicology
19. Working with Glass
20. Non-Ionizing Radiation: U.V., Microwaves
21. An Introduction to Bio-hazards
22. U.S. Chemical Safety Board Videos

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**SESSION III – EVALUATION EXAMINATION**

**Dept. of Chemical Engineering Students  
Dept. of Materials Science and Engg. Students  
Thursday, September 18, 2014, 1-2 pm, WB-116**

