

**LAB SAFETY TRAINING**

ChEn 477 – Fall 2016

Name: \_\_\_\_\_

## 1. Tour the Lab

Take a tour of the lab. As you do so, identify the following and mark the location of each on the map found on the back of this document. Circle the experiments and use the symbols indicated for the Safety Devices and Information.

- A. Experiments
  - a. Continuous Distillation Column
  - b. Ebullimeter
  - c. Catalytic Methanation Bench
- B. Safety Devices and Information
  - a. Exits (Abbreviation: X)
  - b. Fire extinguisher(s) (Abbreviation: F)
  - c. Emergency eye wash (Abbreviation: E) and shower (Abbreviation: S)
  - d. Fire alarm pull switch(es) (Abbreviation: A)
  - e. Gas cabinet for flammable or toxic gases (Abbreviation: G)
  - f. Toxic Gas Warning Lights/Alarms (Abbreviation: GW)
  - g. Storage cabinet(s) for flammable liquid fuels (Abbreviation: FL)
  - h. MSDS/SDS sheets (Abbreviation: MSDS)
  - i. Ear Plugs (Abbreviation: P) and Safety Glasses (Abbreviation: SG)

## 2. Read and Commit to the Lab Safety Rules

All students are required to commit and adhere to the following safety rules. (*These are mandatory.*)

1. No food or drink is allowed in the laboratory or in the computer area. (The exception is water *in a sealable water bottle* in the computer area but not the lab.)
2. All personnel in the laboratory area are required to wear safety glasses, long pants, and covered shoes (no sandals or flip-flops). Long pants and covered shoes are required each class day—even if you won't be in the lab.
3. All students are required to complete ChEn 311 (where HAZCOM training takes place).
4. No labs/equipment may be run/started before the specific lab safety training has been done and the specific lab safety sheet has been passed off with either the instructor, Michael Beliveau, or John Sowa.
5. Experimental work should be completed during the regular class periods. If additional time is needed in the laboratory, you must clear it with your instructor and make an appointment to use the laboratory with Mr. Beliveau. At least two students must be present during those additional hours. (No one is permitted to work in the lab alone).
6. At least one student from each team must be physically in the lab when running experiments. This student should be monitoring the experiment so that emergency procedures can be enacted if problems occur.
7. Students who operate *any* equipment in *any* unsafe manner or in a manner that damages the equipment or results in a user-preventable accident will incur a *significant* grade penalty. This includes not knowing how to run the equipment or shut it down. *All team members should know how to safely run the equipment.*

## 3. Signature of Compliance

Sign below stating you have identified all of the safety devices and information (Section 1) and have read, understand, and will adhere to the lab safety rules (Section 2).

Signature: \_\_\_\_\_

