

Environment, Health & Safety
Facilities Planning & Management
UNIVERSITY OF WISCONSIN-MADISON

Paul Umbeck
Director

FACILITY
MANAGERS
MEETING

April 30, 2015

Agenda

- ⦿ Fire & Life Safety
 - Fire Extinguisher Training
 - Tornado Season
 - AED Reminder
- ⦿ Chemical Safety
 - Compressed Gas Cylinders
 - Carboys - Solvent Containers
 - Dry Ice Safety (Poster)

Fire & Life Safety Updates

Fire Extinguisher Training

Home | Environment, Health & Safety | University of Wisconsin-Madison - Windows Internet Explorer provided by UW-Madison AIMS

http://www.ehs.wisc.edu/

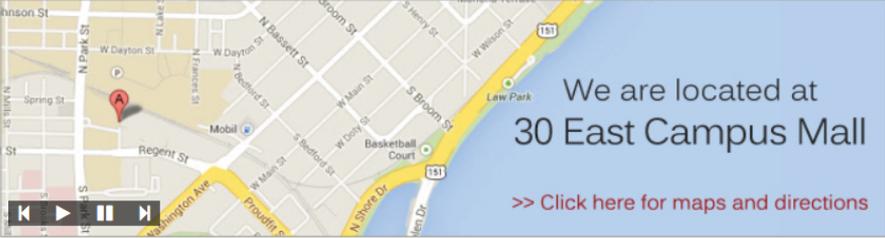
Environment, Health & Safety
Division of Facilities Planning & Management

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HOME ABOUT EH&S PROGRAMS LAB & RESEARCH FACILITIES LAKE CONTACT



We are located at
30 East Campus Mall

>> Click here for maps and directions

ABOUT EH&S
Safety is a daily practice at UW-Madison. EH&S envisions a campus where safety awareness and compliance are integrated into everyday operations, making this University a model for safe research and education.
>> [Learn More](#)

POPULAR SEARCHES

Services	Guidance/Policy	External Links
Abatement/Asbestos	Animal Contact	Animal Risk Questionnaire
Biosafety Cabinet Certification	Research Bloodborne Pathogens	HP Assist Login
Bio Protocol-ARROW	Chemical Hygiene Plan	Pathogen Safety Data Sheets
CORD	Combustible Storage	Select Agent Login
Dosimetry	DEA Controlled Substances	
Fire Extinguishers	Facility Exit & Evacuation	
Lab Remodeling Assessment	Hazard Communication	
Lab Inspections/Outreach	Hazmat Shipping	

QUICK LINKS

-  **Emergencies**
Protocol & contact info for emergency situations
-  **Training**
Descriptions & schedules for our training courses
-  **Disposal Services**
Disposal of chemicals, animal tissue & sharps
-  **Forms/Manuals/Signs**
Pull any form, manual or sign from our database
-  **Contact List**
Look here for staff member contact information

NEWS

Chemical Safety Training Course Now Offered at Multiple Locations
Our Chemical Safety Training course is now offered at more locations on campus, including Memorial Union and Union South. Click [here](#) to register!

Changes to BSC Billing Process



EH&S Training

- Training Overview
- Animal Safety Training
- Biosafety Training
- Chem Safety Training
- Fire Safety Training
- General & Building Safety Training
- Radiation Safety Training



EH&S Training Overview

EH&S offers several different types of training for each of our service areas. These include onsite training through OHRD, online training through Learn@UW, video tutorials and written instruction manuals. Please look below for a calendar of our upcoming training sessions:

Find training by title:

Select a Training Course Go!

Find Training by category:

- Animal Safety Training
- Biosafety Training
- Chemical Safety Training
- Fire Safety Training
- General & Building Safety Training
- Radiation Safety Training

Training FAQ

Below is a list of our most frequently asked training questions. If the answer to your question does not appear in this list, please contact the training coordinator for your course. To find the training coordinator, click on the desired training (Biosafety, Chemical Safety, etc.) on the left and locate the "Contact" tab.

I Don't Know How to Sign Up for My Course. What Should I Do?

Every course description has a section titled "Format". This is where we describe how your training is



- HOME
- ABOUT
- EH&S PROGRAMS
- LAB & RESEARCH
- FACILITIES
- LAKE
- CONTACT

EH&S Training

- Training Overview
- Animal Safety Training
- Biosafety Training
- Chem Safety Training
- Fire Safety Training**
- General & Building Safety Training
- Radiation Safety Training



Fire Safety Training

- Courses Offered**
- Learn@UW Help
- Contact

Training

While various national, state and local ordinances require portable fire extinguishers to be placed in accessible areas of all occupied commercial buildings, the actual use of one is foreign to most people. The most common item stressed to all individuals is to leave a building upon hearing and seeing the fire alarm. While this is important, fire extinguishers can be used on incipient stage fires if the user has been trained. The code covering this comes from the Title 29 of the Code of Federal Regulations Part 1910 Subpart G. 1910.157(g). For more information, visit [OSHA Fire Extinguisher Training Requirements](#) page.

- ▶ **Fire Extinguisher Training**
- ▶ **Fire Extinguisher Refresher Training**

Environment, Health & Safety, 30 East Campus Mall, Madison, WI 53715-1227 | 608-265-5000 | Fax: 608-262-6767

Feedback, questions or accessibility issues: ehsit@fpm.wisc.edu

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- General & Building Safety Training
 - Radiation Safety Training
- 

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Fire Extinguisher Training

Fire Extinguisher Training

This in-person training will cover the proper operation of fire extinguishers.

Format: In-person; register online through OHRD. Or, contact [Joe Hertel](#) or [Don Siebert](#) to set up a training for your department.

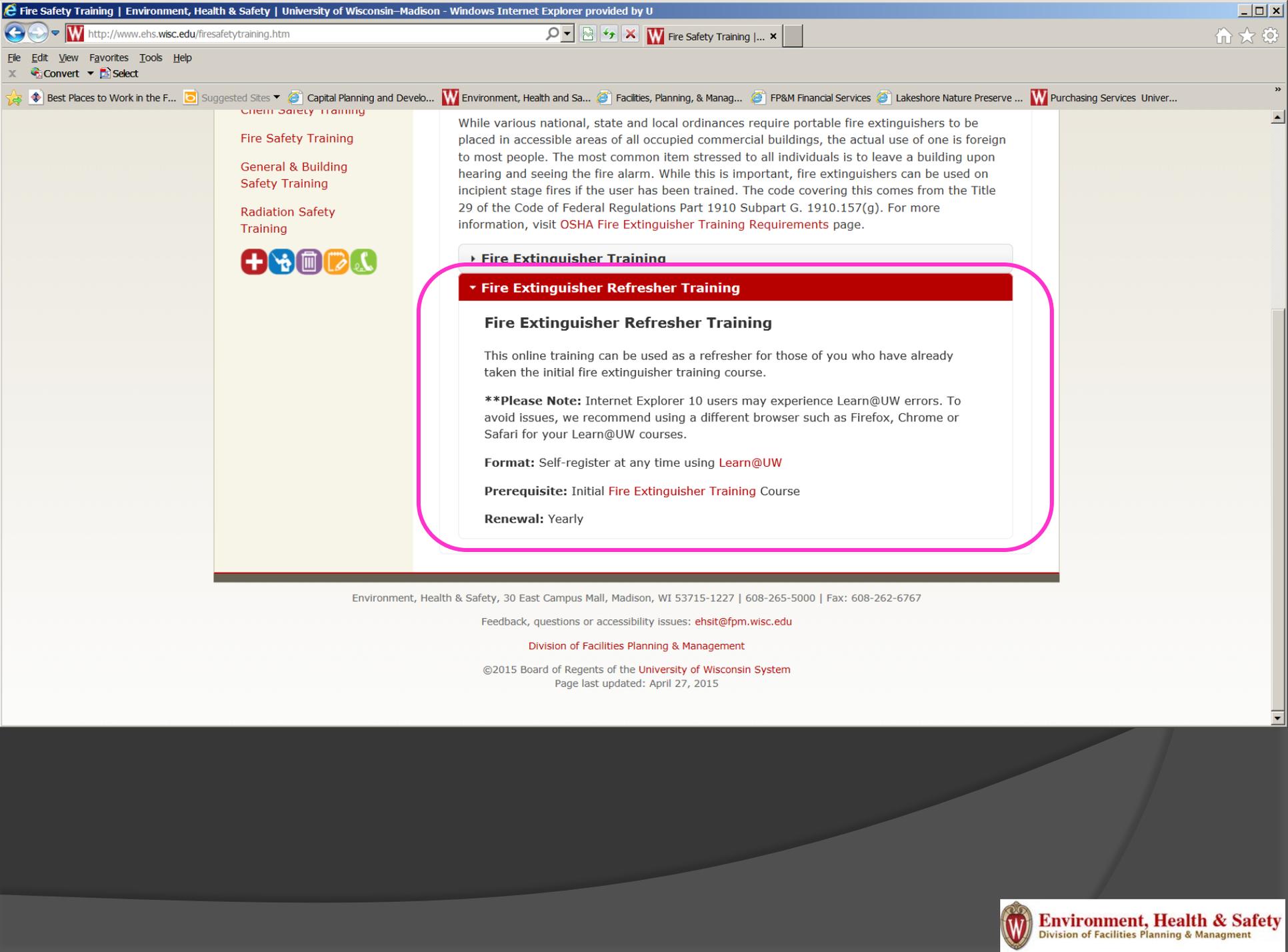
Prerequisite: None

Renewal: Yearly [Refresher Training](#)

Schedule:

- April 23rd, 2:00pm – 3:00pm; Birge Hall [register now](#)
- May 12th, 9:30am – 10:30am; Engineering Hall [register now](#)
- May 18th, 12:00pm – 1:00pm; 650 Babcock Drive (Jorns Hall Area) [register now](#)
- May 21st, 1:30pm – 2:30pm; Engineering Mall [register now](#)
- June 18th, 1:30pm – 2:30pm; Engineering Mall [register now](#)
- July 16th, 1:30pm – 2:30pm; Engineering Mall [register now](#)
- August 20th, 1:30pm – 2:30pm; Engineering Mall [register now](#)

Fire Extinguisher Refresher Training



- Chem Safety Training
 - Fire Safety Training
 - General & Building Safety Training
 - Radiation Safety Training
- 

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▶ Fire Extinguisher Training

▼ Fire Extinguisher Refresher Training

Fire Extinguisher Refresher Training

This online training can be used as a refresher for those of you who have already taken the initial fire extinguisher training course.

****Please Note:** Internet Explorer 10 users may experience Learn@UW errors. To avoid issues, we recommend using a different browser such as Firefox, Chrome or Safari for your Learn@UW courses.

Format: Self-register at any time using [Learn@UW](#)

Prerequisite: Initial [Fire Extinguisher Training](#) Course

Renewal: Yearly

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Tornado Season - Did You Know

- ◉ Wisconsin's Tornado & Severe Weather Awareness Week was April 13-17, 2015
- ◉ Wisconsin averages 23 tornadoes annually
- ◉ In 2014, 22 tornadoes were reported in Wisconsin by the National Weather Service. Eighteen of those tornadoes occurred in June.
- ◉ Strongest tornado in 2014 occurred on June 17 when an EF 3 tornado hit Verona. At least 30 homes were damaged as well as the Country View Elementary School. The tornado traveled about a mile, had wind speeds of 136 to 165 mph and was on the ground for several minutes.



Free Information can be found at <http://readywisconsin.wi.gov/>

Ready Wisconsin - Windows Internet Explorer provided by UW-Madison AIMS

http://readywisconsin.wi.gov/

Ready Wisconsin

Home | Contact Us | Site Map | Google Custom Search

READY WISCONSIN

ReadyWisconsin is a part of the Wisconsin Emergency Management team

Home | About ReadyWI | Get A Kit | Make A Plan | Be Informed | ReadyResources | STEP | Cell Phone Alerts | Cyber

Connect with Us

- Join us on Facebook
- Follow us on Twitter
- Watch us on YouTube
- View us on Flickr
- Sign up for E-mails

Tweets Follow

Vince Condella @VinceCondella1 5h
On this date 31 yrs ago, Wales tornado kills 1, injures 14. Write-up from @NWSMKX here: weather.gov/mx/042784_wal... #swiwx pic.twitter.com/0KA83ki5Pp

Tornado Awareness Week

STEP Student Tools for Emergency Planning

Midwest Road Conditions

TORNADO SURVIVOR STORIES!
Wisconsin Residents Share Their Experiences

ReadyWisconsin Headlines

- [Preparing Your Pets for Emergencies Makes Sense](#)
- [DHS Announces The 2015 CYBER Student](#)

Get a **NOAA**

On The UW-Madison Campus

- Shelter locations can be found within Building Evacuation Route maps

Building Evacuation Routes

WISCONSIN UNIVERSITY OF WISCONSIN-MADISON

GYMNASIUM-NATATORIUM
2000 OBSERVATORY DRIVE
FIRST FLOOR PLAN

LEGEND

- YOU ARE HERE
- EXIT
- Accessible EXIT
- Evacuation Route
- AED
- Fire Extinguisher
- Fire Alarm Pull Station
- Tornado Shelter Area
- Elevator

The Howard Temin Lakeshore Path

Walnut Street

Observatory Drive

Willow Drive

FIRE ALARM OR ACTUAL FIRE

- Fire in Building → Evacuate Area & Pull Fire Alarm → Use Nearest Exit -or- Alternate Safe Route (See map) → Call 911 → Stay 500 feet away from building
- Fire Alarm → Evacuate Area → Do NOT use Elevator → Call 911 → Stay 500 feet away from building

Call 911
Call from assembly point or neighboring building.

Individuals needing assistance during an evacuation are encouraged to develop personal action plans and contacts in the building.

Do NOT return to building until "All Clear" is given

NATURAL DISASTER / INCLEMENT WEATHER

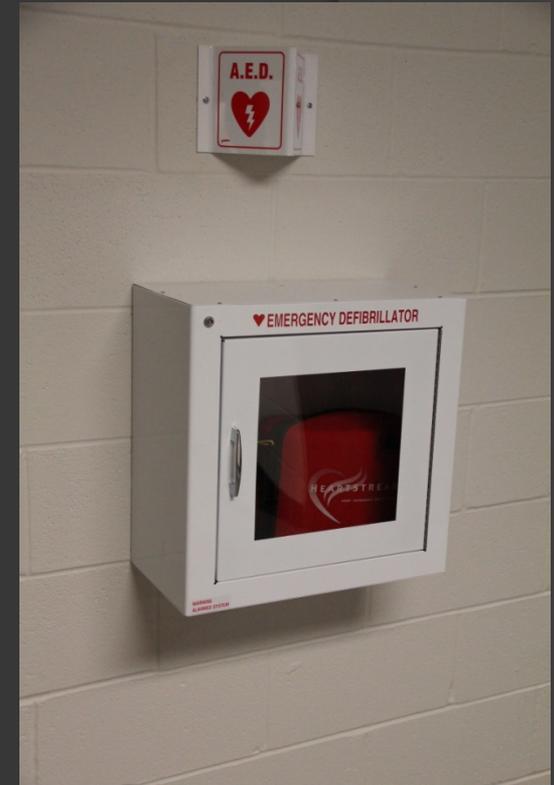
- Natural Disaster -OR- Inclement Weather (Examples: Tornado, Thunderstorm, Blizzard) → Warning: Severe weather has actually been sighted in the area → Seek Appropriate Shelter → Stay away from windows
- Watch: Conditions are favorable for the development of severe weather → Tornado Shelter Area -OR- Interior Hallway → Avoid large rooms
- Do NOT use Elevators
- Monitor News and Weather Broadcasts

Please contact the Facility Manager or UW Environmental, Health & Safety (265-9000) if you have questions or comments about this poster.

S:\0031\0031A01.dwg, 2013

AED Reminder

- If your building is interested in purchasing an AED, please let Fire & Life Safety know so we can add the unit(s) into our inspection cycle.



Administrative Policy

JW-Madison Campus-Wide Administrative Policy Policy # 2013_12_01_v1 Public Access Automated External Defibrillators (AED) Policy	Effective Date:	December 1, 2013
	Last Updated:	December 1, 2013
	Last Reviewed:	December 1, 2013
	Next Review:	December 1, 2015

Functional Owner	Facilities Planning & Management/ Department of Environment, Health & Safety
Executive Sponsor	Associate Vice Chancellor, William M. Elvey, PE, FMP
Policy Contact	Director, Paul Umbeck, PhD, pumbeck@fpm.wisc.edu

Policy Summary

The purchase, placement, use and maintenance of AEDs at the University of Wisconsin-Madison shall conform to the requirements established in this policy. No work unit is permitted to purchase or install a public access AED without approval by the process established herein.

<http://www.ehs.wisc.edu/fire/CampusAEDPolicy.pdf>

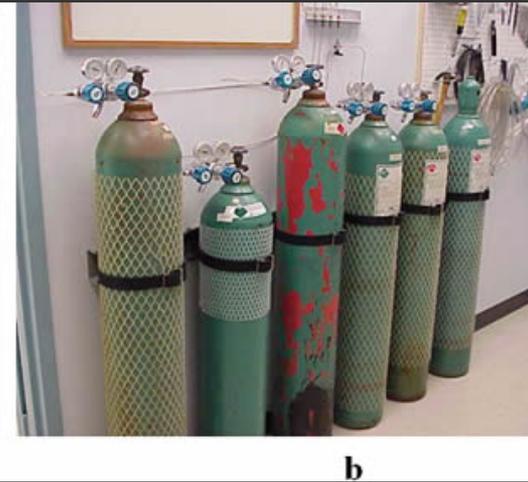
Chemical Safety Updates

Compressed Gas Cylinders

Compressed gas cylinders must be chained or strapped at all times.



a



b



Compressed Gas Cylinder storages areas must be marked with full and Empty Storage areas.

**EMPTY
CYLINDER**

**FULL
CYLINDER
STORAGE
AREA**



Gas Cylinder Caps & Movement

**VALVE CAPS
MUST BE IN
PLACE ON
CYLINDERS
WHEN NOT IN USE**



- When moving a compressed gas cylinder use a Cylinder Hand Truck
- Cylinders must be secured to the Hand Truck when in transit



Carboys – Solvent Containers

Not These Carboys

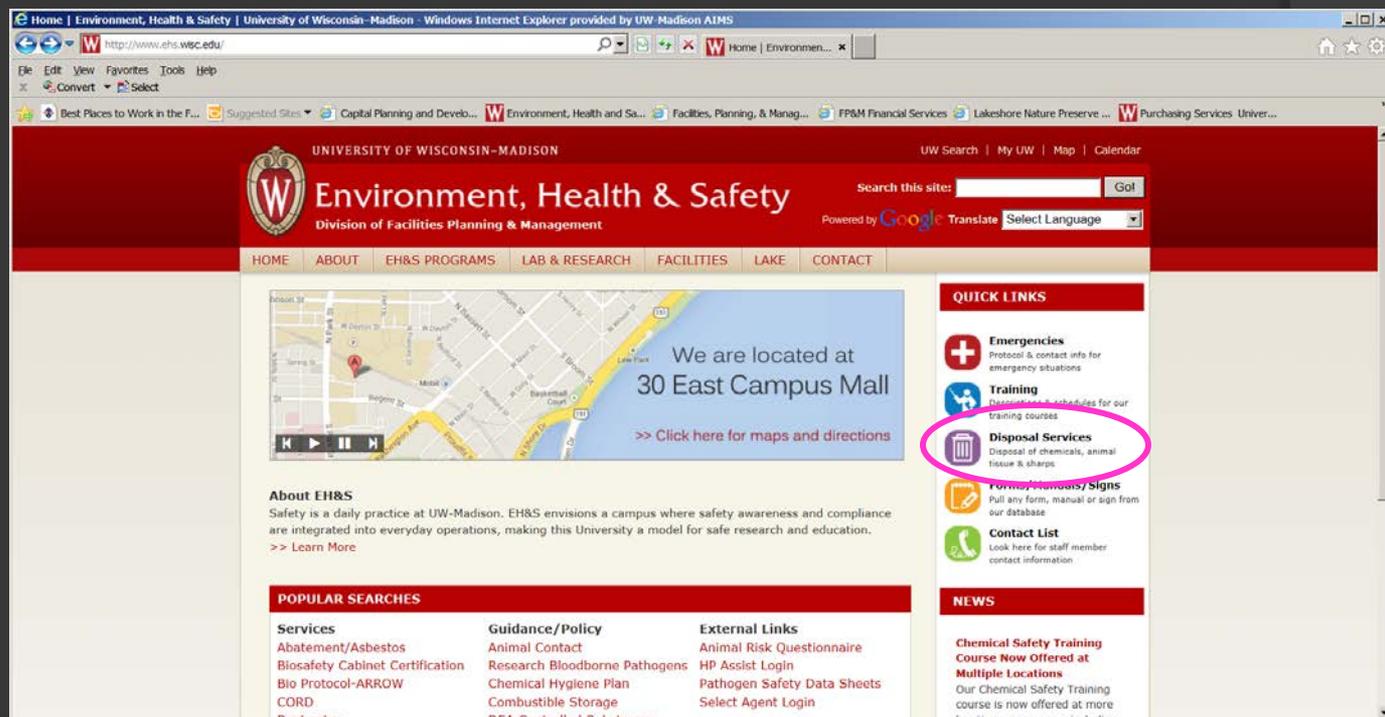




- Carboys must be capped and tightened when not being filled.
- Funnels are not considered a cap.
- Carboys should not be used to prop doors open or stored in hallways.

Carboys in Buildings

- Full carboys can be picked up and swapped for an empty weekly.
- All carboy pickup requests are processed online through the EH&S website. Click on the trash can icon.



The screenshot shows the University of Wisconsin-Madison Environment, Health & Safety website. The page features a navigation menu with links for HOME, ABOUT, EH&S PROGRAMS, LAB & RESEARCH, FACILITIES, LAKE, and CONTACT. A central map displays the location at 30 East Campus Mall. Below the map, there is an 'About EH&S' section and a 'POPULAR SEARCHES' section. On the right side, a 'QUICK LINKS' section is visible, with the 'Disposal Services' link highlighted by a pink circle. The 'Disposal Services' link is accompanied by a trash can icon and the text: 'Disposal of chemicals, animal tissue & sharps.' Other quick links include 'Emergencies', 'Training', 'Forms/Manuals/Signs', and 'Contact List'. The bottom of the page features a 'NEWS' section with a link to 'Chemical Safety Training Course Now Offered at Multiple Locations'.

Dry Ice Safety

- ◉ Dry Ice sublimates to gas (Carbon Dioxide)
- ◉ Can cause asphyxiation
- ◉ Incident during transportation caused auto accident



Dry Ice Poster

- Poster is available from EH&S Chem Safety
- Request one for all dry ice storage locations

DRY ICE SAFETY

Hazards of Dry Ice

Dry ice is solid Carbon Dioxide (CO₂) and is extremely cold

As dry ice heats up it sublimates into an asphyxiant gas

A small amount of dry ice can sublime into a large volume a gas

Dry ice can be hazardous when used/stored in a confined space or when used to make "smoke drinks" (consumed)

In well ventilated areas, CO₂ gas dissipates and is harmless. However, in confined or poorly ventilated spaces, CO₂ gas can accumulate

Risks of CO₂ exposure include: dizziness, loss of consciousness, and suffocation

Effects of CO₂ Exposure (By Volume)

1%
3%
5%
8%

Visual
Dimmed Sight

Auditory
Reduced Hearing

Central
Drowsiness
Mild Nausea
Dizziness
Confusion
Headache

Skin
Sweating

Heart
Increased Heart Rate and Blood

Muscular
Tremors

How to Handle Dry Ice

Wear thermal gloves when handling dry ice

Store in a well-ventilated space

Do not consume dry ice

Secure dry ice to prevent unauthorized access

Do not store in tightly sealed containers

Avoid leaning into or over any storage container storing dry ice

Transporting Dry Ice

You should avoid transporting dry ice in the cab of a truck or passenger compartment of a car when possible

If you must transport dry ice in the driver's compartment, ensure the compartment is well-ventilated (windows open)

Make sure the container holding the dry ice is closed securely to minimize the release of gas

Transporting dry ice in an insulated cooler will minimize off-gassing

Load and unload dry ice in a well-ventilated area

Environment, Health and Safety Department
UNIVERSITY OF WISCONSIN-MADISON
(608) 265-6500