Responsible Conduct of Research - Lab Safety Procedures

Purpose

The purpose of these procedures is to clarify and ensure Lab Safety at Mayville State University (MSU).

These procedures define the responsibilities of MSU affiliated individuals (e.g., faculty, principal investigators) who oversee and/or conduct classroom and/or research activities that are conducted in a lab environment that may pose significant risk to students, faculty and/or staff.

Procedures

MSU faculty, staff and students engaged in research activity (whether paid or unpaid) are required to be initially educated/trained and annually review the institution's Lab Safety policies and procedures. Faculty/Principal Investigator's/Project Director's must ensure and document students' engaged in research activity have been instructed in lab safety (as relevant to said research and/or courses).

Laboratory Safety Training will be provided by the Science Faculty and may be supplemented by training providers. Additional training may be required depending on the activities performed by the laboratory worker. Such training may include the use of specific equipment and/or other safety related topics specific to one's research.

The training sessions provided by MSU faculty give an overview of universal safety procedures for working with hazards that may be encountered in the lab. It is generalized and must cover safety items specific to each lab. As part of normal interactions with laboratory workers, lab supervisors must ensure they are trained in the safe and proper practices for the procedures and materials they use and any lab-specific safety measures they may take to protect themselves from exposure to hazardous materials, including the location and use of emergency equipment.

All new lab workers are required to receive lab-specific safety training from their Principal Investigator, or other designated experienced researcher. Emergency procedures and general lab safety procedures must be covered immediately when the new person joins the lab. Other items can be covered as the new researcher begins new procedures.

Documentation that the individuals have been instructed and/or evaluated on the topics or procedures is required and must be submitted to the Grants Office. Documentation consists of the Lab Safety Verification Training Record for each researcher and/or student researcher using the lab.

Reference(s)/Related Policies & Procedures

M18308 Responsible Conduct of Research MP18308.2a Student Research Procedures MP18308.2b Lab Safety Procedures

Adopted: April, 2016

Sponsors: President, Vice President for Academic Affairs, Vice President for Business Affairs, and Executive Director of Institutional Effectiveness

Mayville State University Lab Safety Training Verification Form

Per University <u>Procedure MP18308.2b</u>, all individuals conducting research in Mayville State University science laboratories, paid or unpaid, including faculty, staff, students and visitors, must attend Laboratory Safety Training.

This form when completed documents an overview of universal safety procedures for working with hazards that may be encountered in the lab. It also covers safety items specific to each lab including safe and proper practices for the procedures and materials used and any lab-specific safety measures necessary to protect themselves and others from exposure to hazardous materials, including the location and use of emergency equipment.

Lab Specific Training Verification Form

Researcher Name:	
Principal Investigator	Lab Location
Position/Title	
Status: ☐ Faculty ☐ Staff ☐ Post-Doc ☐ Undergra	duate Student
Supervisor Name:	Date:

The person providing instruction should initial and date each item when the topic is covered. Items that do not apply to the lab or the researcher should be marked "NA." After all of the relevant training has been completed, have the new lab worker sign and date this form and save it in your laboratory training records.

Initials & Topic Date					
	Emergencies				
	Emergency procedures for medical, fire or safety emergencies (includes Blood Borne Pathogens, and other through a LMS and/or other institutional services) including reporting procedures.				
	Basic building alarms, response to alarms				
	Emergency Action Plan including: exits, evacuation routes and designated meeting locations				
	Location of emergency equipment such as eyewash stations, fire extinguishers, fire pull stations, safety showers, etc;				
	Reporting requirements for laboratory incidents and accidents, especially relating to personal injury				
	Location and use of spill kit, first aid kit				
	Location of emergency contact information, including Public Safety (911)				
	General Lab Safety				
	Proof of attendance to Laboratory Safety Training provided by MSU				
	Process for raising and addressing health and safety concerns in the lab (who to report to)				
	Food and beverages are not to be consumed in laboratories.				
	No pets allowed in labs, unless designated as service animals (documentation necessary)				

Initials & Date	Topic
	Protocols for transporting chemicals and other hazardous materials in hallways, e.g., use of secondary containers, no transporting in personal vehicles, use of state fleet vehicles, etc.
	Location and provision of personal protective equipment (PPE: gloves, glasses, lab coat)
	Protocol for PPE when outside of the laboratory, except when transporting hazardous materials (e.g., do not wear gloves in hallways, elevators, etc.)
	When to use PPE, including proper eye protection, for specific tasks
	PPE work practices (i.e. closed toed shoes, lab coats buttoned, disposable gloves, and wash hands after removal of gloves, removal of lab coats before leaving the lab, etc.)
	Lab security requirements (e.g., locked doors, access policies, non-supervised activities weekend and evening access and security protocol)
	Equipment cleaning and ongoing maintenance (including when to unplug)
	Proper storage, handling and disposal of broken glass, scalpels, razor blades, needles, syringes or other sharps.
	Hazards and proper use of compressed gases and cryogenic material, including moving cylinders, how to secure cylinders, procedures for attaching and removing regulators, etc.
	Chemical Safety
	Location and access to the Chemical Inventory, Chemical Hygiene Plan, and other safety information in the event of an accident/emergency.
	Material Safety Data Sheets (MSDS) access and use
	Methods and observations that may be used to detect the presence or release of a
	hazardous chemical in the lab (e.g. odor, monitoring equipment, or visual appearance) and what action to take if detected.
	Hazardous chemical labeling system used in the lab
	Specific use of laboratory hoods and other engineering controls
	Chemical storage and disposal procedures
	Location of chemical waste containers, use, labeling and compatibility (Hazardous waste management and disposal procedures)
	Chemical spill procedures, including spill kit location, cleanup and reporting
Applicable?	□Yes □No Biological Safety (BSL2 Materials and Recombinant DNA not
	Exempt from the NIH Guidelines)
	Proof of attendance at Biological Safety Training
	Proof of attendance at Blood borne Pathogens Training
	Proof of attendance at Live Virus Worker Training
	Identification of all biological hazards in laboratory
	PI-approved use of sharps when working with infectious agents
	Review of protective equipment specific to the biological hazard(s)
	Personal Hygiene Procedures (hand hygiene, no eating and drinking in the lab)
	Review tasks that should be conducted in a biological safety cabinet Signs/ symptoms associated with infections that could be caused by exposure to agents
	handled in the lab and procedures for reporting suspected laboratory acquired infections
	Operation and use of lab equipment and decontamination methods
	Medical waste handling, including sharps disposal and disinfection of waste materials containing viruses, bacteria or other agents that could cause infection in humans
	Proper use of autoclave Biological material spill procedures, including cleanup and reporting

Initials &	Торіс					
Date	<u>-</u>					
Applicable?	Applicable? Yes No Radiation Safety- Not APPLICABLE					
Applicable?	☐Yes ☐No Laser Safety- Class 3 Lasers					
	Proof of attendance to Laser Safety Training provided					
	General awareness of laser hazards, signs and symbols used in lab					
	Type of hazards for specific lasers, e.g., eye, skin, ignition of flammable materials, etc.					
	Laser Safety Officer name and phone number					
Initials &	Other Topics					
Date						
	High voltage safety					

Equipment: List equipment found in your lab that requires orientation and proof of proficiency, such as chemical fume hoods, centrifuges, pressure vessels (including autoclaves), ovens, UV equipment, x-ray equipment, RF producing equipment, biosafety cabinets, cryostats, high voltage equipment, etc. Note whether use of this equipment requires supervision, PI approval and/or working alone is not permitted.

Equipment	Initials/Date Orientation	Initial/Date Proven Proficiency	Comments on working alone, supervision and/or PI approval
Fume Hoods			
Auto Claves			
Laminar Flow Hood			
UV Equipment			
Bench Top Centrifuge			

Operating Procedures and Higher Hazard Materials:

List the processes or specific chemical or materials that may present an elevated risk of serious injury or property damage. Review the precautions, safeguards and procedures associated with these materials or processes. Examples include, but are not limited to:

- Highly toxic metals, such as arsenic, lead, barium, etc.
- Hydrofluoric acid
- OSHA-defined particularly hazardous substances¹
- Nanomaterials
- Pyrophoric, explosive and water-reactive materials
- DEA controlled substances

	Procedure/Material	Initials/Date Orientation	Initial/Date Proven Proficiency	Comments on working alone, supervision and/or PI approval
Ī	Chromic Acid			
Ī	Cadmium			
Ī				

Your signature confirms that all items noted in this document have been communicated during a training session administered by the Principal Investigator or Laboratory Trainer and that you had the opportunity to ask questions.

Researcher Signature	Date
Training reviewed by:	Date:
·	

Mayville State University Laboratory Safety Inspection/Walk Through

Date of Inspection:	Lab/Room:
Faculty Present:	Inspected by:

Area: Chemical Storage	Yes	No	Comments/Corrective actions to be taken
Chemicals segregated by hazard class			
flammables are away from oxidizers			
 acids and flammables are separated 			
 acids and bases are separated 			
 nitric acid is separated from other acids 			
Chemical containers in good condition			
 unacceptable conditions include: rusty 			
containers (including gas cylinders), leaking			
containers, and broken caps			
Chemical containers properly labeled			
 primary original containers need to have a 			
label on and the label must be readable			
• lab personnel need to tape labels on if they			
are falling off or make a new label that			
includes chemical name, hazards, and			
manufacturer (if this information is known)			
 secondary containers that are used for 			
storage (e.g., squeeze bottles) need to be			
labeled with the chemical contents			
Chemical containers closed			
 Containers should have lids or covers 			
 Container lids or covers should be firmly 			
secured unless actively pouring			
Glass chemical containers are not stored on			
the floor			

• glass containers holding liquid chemicals	
(even water) or hazardous solid chemicals	
cannot be stored on the floor unless they are	
positioned in such a way (pushed way under	
a table) that they can't be broken	
Hazardous chemicals not stored above eye	
level	
hazardous chemicals must be stored at or	
below eye level	
Gas cylinders properly secured	
all cylinders must be secured snugly with a	
strap or chain that is above the middle of the	
cylinder (a single chain can be used to secure	
several cylinders as long as each cylinder is	
secured on at least three sides) — Exempt:	
lecture bottle	
Fume hood not used as permanent storage/	
no clutter in fume hood	
• fume hood should not be used as a	
permanent storage cabinet	
• fume hood should not be overly cluttered	
• fume hood sash should not be blocked by	
items or objects – sash should close all the	
way	
• all work should be performed at least 6	
inches behind the sash of the fume hood	
• all equipment should be raised 1-2 inches	
off the surface of the fume hood	
back baffle of fume hood should be clear of	
obstruction	
Fume hood sash closed when unattended/at	
or below 18 inches when attended	
• the sash must be pulled down so that the	
vertical opening is no greater than 18"	

Other:

Area: Ignition Sources	Yes	No	Comments
Vacuum pumps and other ignition sources			
are segregated from			
flammables/combustibles			
 vacuum pumps and other significant 			
sources of ignition, e.g., a Bunsen burner,			
cannot be stored near flammable chemicals			
or combustible material like paper or			
cardboard			
Electrical cords are in good condition			
all electrical cords (that can reasonably be			
checked) should be in good condition, i.e.,			
the			
insulation should not be worn, split, or			
frayed; the plug should not be separated			
from the			
cord; and the cord should not be pinched in a			
door or in any other way			
• extension cords are not used as permanent			
wiring			
 power strips are not connected in series 			
(daisy-chained)			
Other:			

Area: Sharps/Glass Waste	Yes	No	Comments
Glass waste disposal box properly used			
• should not be more than ¾ full			
should not contain hazardous materials			
(look for unclean chemical bottles or			
untreatedbiological material)			

should not have liquids (look for signs of		
water damage to the cardboard or containers		
containing liquid)		
 should have structural integrity (check to 		
see if the bottom is rotting)		
Sharps containers properly used/properly		
disposed when full		
 sharps containers should not be more than 		
¾ full		
 sharps containers should not have bottles, 		
beakers, etc. in them unless that glassware is		
INFECTIOUS		
 sharps cannot be discarded anywhere 		
other than sharps containers		
Other:		

Area: Good Practices	Yes	No	Comments
Lab was secured			
• if no one is present in the lab, the doors			
should be locked			
Excess clutter was not present in the lab			
 look for signs of cluttered lab benches, 			
fume hoods, and floors that goes beyond			
daily use			
(>24 hours)			
Items were not stored within 18 inches of a			
fire sprinkler head			
look for any items stored within 18 inches			
of a fire sprinkler head			
Food/drinks were not in the lab			
• look for signs of food/drink in the lab (on			
desks, in trash cans, etc.)			
storage of food/drink is not allowed			

Other: Signs of unauthorized animals in the		
lab, etc.		

Area: Emergency Equipment, Preparedness,	Yes	No	Comments
PPE, and Egress			
Exits and aisles clear of obstruction			
walkways should not be cluttered—need at			
least 3 feet of clearance in aisles			
• up to two exits in each lab need to be free			
from obstructions and be usable			
Emergency equipment clear of obstruction			
 emergency equipment, e.g., showers, 			
eyewashes, spill supplies, and fire			
extinguishers need to be unobstructed			
Doors not propped open			
doors from main hallways or entrances to			
labs with hazardous materials should remain			
closed			
 doors to rooms within a suite do not 			
necessarily have to remain closed. It depends			
on the hazards present in each room in the			
suite			
Appropriate spill supplies available			
one chemical spill kit is needed per lab			
group (if contiguous)			
• if work with infectious agents is conducted,			
then biological spill supplies are needed			
Electrical panels/disconnects clear of			
obstruction/ panel doors closed			
will usually be gray colored boxes			
Eyewash tested within the past			
week/documented in the past month			
Eyewash available			

eyewash must be available within 10 seconds normal travel time and accessible
seconds normal travel time and accessible
(e.g., not behind a locked door)
Lab personnel know how to get SDS
• lab personnel need to know how to get
SDS; either paper copies in the lab, EHS
office, or the internet
• regardless of the system used, SDS must be
available at all times
Lab personnel have PPE available (including
fire-resistant lab coats as needed)
• the clothing must be available and the lab
staff must have the ability to obtain
additional clothing as needed
Lab personnel wear/use proper PPE while in
lab (lab coat, gloves, glasses,
etc.)/shorts/sandals are not worn in the lab
• if working with chemicals, at a minimum,
lab staff need to wear eye protection, gloves,
long sleeves, and long pants or a buttoned
lab coat if shorts are worn
• open toed shoes, e.g., sandals, are not
allowed
Emergency shower available
emergency shower must be available
within 10 seconds normal travel time and
accessible (e.g., not behind a locked door)
Emergency shower has been tested within
the past year
inspection tag must be marked showing
that the shower has been tested within past
year
Fire extinguisher is available, mounted and
clearly marked

fire extinguishers must be mounted near	
the door and must also be marked with a	
prominent sign if the mounting is in a place	
where the extinguisher is obstructed from	
view	
 fire extinguishers must be readily available 	
if there are hazards present that could	
potentially cause a fire	
Fire extinguishers are charged and have	
safety pins and seals.	
• is the pressure gauge fully charged? The	
arrow should be in the green zone and	
oriented towards the "12:00" position if you	
were reading it like you would a watch or	
clock.	
 the safety pin should be firmly in place. 	
 the safety seal (a piece of plastic ty wrap) 	
should be connected to the safety seal and	
handle of the extinguisher.	
 carbon dioxide cylinders will not have a 	
pressure gauge so we will only look for the	
safety pin and seal on these types of units.	
 check to see whether or not the fire 	
extinguisher has been used or tampered	
with. The pressure gauge, safety pin, and seal	
will help us determine if usage or tampering	
has occurred.	
Other	

Area: Other	Yes	No	Comments
No penetrations in walls, floor, or ceiling/all			
ceiling tiles in place			

look for punctured holes in the walls that were used to secure objects manufactured floor drains do not count as a deficiency check to see if any penetrations have not been sealed with fire retardant material Refrigerators/cooling equipment properly labeled non lab-safe refrigerators/freezers/coolers will need a black and white sticker with the wording "Do not store flammable solvents in this refrigerator" the stickers (labels) are provided by EHS and are approximately 4" wide by 5.5" long Current lab signs/inventories posted at lab entrance a current EHS lab sign indicating chemical hazards in the lab and the laboratory emergency contacts must be posted near the entrance if lab uses RAM, lasers, or biological materials then appropriate signs must be in place at the entrance if lab uses RAM, lasers, or biological materials then appropriate signs must be in place at the entrance if lab uses RAM, which is the lab and the lab warrant signage such as electrical hazards, asbestos, electromagnetic area, strong radio frequencies, etc. Temergency instructions posted		
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Emergency instructions posted	frequencies, etc.	
	Emergency instructions posted	

V	NI-	Comments
	Yes	Yes No