LLE Supervisor Safety Training

This training is:

- For those who are not directly exposed to LLE's lab hazards, but supervise those who are. It is also applicable for staff who enter labs to perform work not directly related to the hazards in the area (ex. IT)
- Only available to those who have taken the full version of all applicable trainings (G_001B, C_001, E_001, L_001, M_001) at least once previously
- Required once every two years



Outline

- Overview
- General Laboratory Safety
- Laser Safety
- Mechanical Safety
- Electrical Safety
- Chemical Safety

Overview

Access to LLE is restricted to provide physical, personal and facility security

- Building access is controlled by card readers and receptionists
 - With badge access, everyone *must* swipe themselves in no piggy-backing
- All persons are required to wear UR/LLE issued ID or visitors badge, where it is readily visible, while in the building
- Some specific lab spaces inside LLE require an escort to access
- Everyone must sign in and out at a reception desk when in the facility during non-working hours
- Never allow people to enter LLE to use the phone, bathroom, get a drink, etc. unless they are personally known or escorted by you.
- Before you leave the building, make sure the path to your vehicle is safe. Wait inside the building if you observe unusual vehicles or suspicious activities.
 - The number to UR Dept of Public Safety is on the back of your badge
- Report instances of suspected unauthorized building entry or any suspicious activity to UR/LLE Facility Security Officer (FSO)

Call UR Public Safety (585) 275-3333 (or use a Blue Light Phone) to request an escort to your car or report a campus crime. Call 911 off-campus

Emergency phone numbers



LLE Receptionist (East lobby)	(585) 275-5101
UR Public Safety *campus blue phones connect to public safety directly	(585) 275-3333
Local emergency services (Fire, Police, Ambulance)	911
Blood exposure hotline	(585) 275-1164
Add these amorganov contact numbers to	vour cell phone new

Add these emergency contact numbers to your cell phone now

The stickers on lab/desk phones provide dialing instructions for internal phones, specifically

Emergency Numbers During working hours: 5-5101 After hours: 9-911

Carefully control information you have access to, and items assigned by LLE/UR

This includes, but is not limited to:

- University/Visitor ID badge
 - If you misplace your ID badge, report it immediately to LLE's FSO and The Director's Executive Assistant
- Computer accounts & passwords
- Confidential information
- Radiation badges
- Keys
- Mobile devices

The University enforces strict policies regarding handling of confidential information. University IT Policies are found <u>here</u>, including:

- Data Security Classifications Policy
- Mobile Computing Device Security Standards

Individuals are personally responsible for appropriate use of these items.

LLE's Computer and network policies are designed to prevent costly problems

LLE's Information Technology (IT) group has identified key things you should know about accessing or using computer or network resources:

- 1. Never connect or disconnect cables from a computer or network device without explicit permission from IT. Limit your activities to specific cables, devices, and network ports you are authorized to work on.
- 2. Do not change the network settings on any LLE network device without IT approval.
- 3. Computers that connect to ANY University network must be up to date with security patches and have University approved anti-virus protection.
- 4. Treat all email as suspicious until proven otherwise. Don't click links or open attachments unless you recognize the sender and understand why they sent you a link / attachment.

Computer and Network Safety (cont.)

- 5. Do not leave desktop computers powered off without contacting IT.
- 6. Save important LLE files on network shares, not on your computer.
- 7. Mobile devices (phones, tablets, laptops, etc.) that access any UR/LLE resources (mail, files, etc..) must be password protected by a strong screen lock.
- 8. Passwords or passphrases used for LLE accounts should not be used for other accounts (personal or business). University IT recommends the use of the password manager/vault, "Keeper."
- 9. Never open a computer chassis without assistance from IT.
- 10. Log off or lock your computer screen when you are away from your desk.
- 11. Disconnect VPN when access to the LLE computer network is not needed

If you have any questions about ANY of these rules, contact IT for answers and/or clarification



Safety is everyone's responsibility

- Hazards exist throughout the workplace and change over time
- Restrict your activities to those for which you are trained, qualified, and Authorized
- Stop Work if an abnormal event occurs or if an activity seems unsafe and report it *immediately*.
- **Be Prepared.** Know how to respond in an emergency
- Prevent Unauthorized Access to LLE
- Understand Computer and Network Policies
- **Prevent unauthorized dissemination of controlled items**

LLE safety information is available on the "Safety Zone"

						≁UR	LLE AUnivers	ity of Rochester
LABORATORY FOR LASER ENERGETICS	News	About 👻	Omega Laser Facility 👻	MTW Laser Facility 👻	Education -	Research Areas 👻	Publications -	Safety Zone 🔻
				Safety				
		LLE Safety Z	one Home Medical Emerg	ency Safety Training	→LLE Incident Re	eports ARadiation		

The **<u>Safety Training</u>** Page – houses resources such as:

- Safety Trainings providing more detailed information on specific topics
- Blank JHA forms available any time when job responsibilities change
- Safety Action Items Log to review outstanding safety concerns pertaining to you/your areas
- Training requirements and status for you and your direct reports

The Safety Team - comprised of subject matter experts available to help navigate safety concerns

Contact The LLE Safety Team with your questions and concerns

The LLE Safety Office (Rm 4206) provides...

- Information, assistance and support
- PPE
 - Safety Eyewear
 - Hearing protection
 - Gloves
 - Hard hats



- Reference texts
 - Safety Data Sheets (SDS)
 - CHP binder
 - National Fire Codes
- Safety supplies
 - Lens cleaners
 - Sharps disposal
 - Eyewash flush logs









Policy Against Discrimination, Harassment, and Discriminatory Employment/Service Practices (PADH)

The Policy Against Discrimination and Harassment (PADH) applies to: Faculty; staff; residents; fellows; postdoctoral appointees; student employees; students, interns (paid or unpaid); volunteers; and to all visitors (including patients, contractors, and vendors) to any University campus, facility and/or property, and to University sponsored activities and events, whether on University premises or not.

The University is governed by multiple state and federal laws that prohibit discrimination and harassment based on various protected classes and this policy is intended to comply with all of them. These laws may require that certain complaints filed under this policy be addressed under another University policy (for example, the University's Title IX policy). The University's Office of Equity and Inclusion will assess all complaints made under this policy and determine the most appropriate process for addressing the individual's concerns.

Reports can be made by emailing PADH@Rochester.edu

Guidelines for Guest Workers:

Guest Workers are not permitted to :

- Perform work requiring a respirator
- Work in the Machine Shop
- Use ladders > 6 feet (1.8 m) tall, rolling stairs, aerial lifts, or perform activities requiring fall protection
- Perform chemical processes (unless provided explicit permission with training from a LLE Chemical Safety Officer)
 - small quantities of low toxicity reagent use is allowed
- Operate the High Pressure LN2 Fill Station
- Lift items <a>> 50 lbs = 22 kg (requiring safety shoes)
- Operate hoists or cranes, or perform rigging operations
- Service energized equipment, unless following written, LLE-approved procedures
- Remove "Danger Do Not Operate" tags
- Modify, or authorize changes to equipment, software, or procedures

Workers need to be aware of work area hazards

LLE supervisors are expected to inform workers of the hazards they will be exposed to in labs by training, signs, and other communications

- Each work area is dynamic and presents unique hazards
- Some of the hazards that may be present at LLE include:
 - Electromagnetic radiation (laser, x-ray, ...)
 - Radioactive sources (neutron, beta, gamma, ...)
 - High-pressure gas and large volume vacuum systems
 - Cryogenic fluids
 - Chemicals, beryllium, lead, silica dust
 - High voltage
 - Working aloft (e.g., ladders, lifts, platforms)
 - Rotating machinery
 - Rigging operations

"Stop work" policy

Everyone has the right <u>and RESPONSIBILITY</u> to "Stop work" if they perceive an <u>Imminent Danger</u>

- An imminent danger is a hazard that presents an unacceptable risk of injury, environmental impairment or property damage.
- No one should undertake a job that appears unsafe
- Hazards may result from:
 - defective equipment
 - failure to follow procedures
 - equipment or techniques that are unsuitable for a task
 - unforeseen circumstances
- Remind staff to Immediately notify you, the line-manager, and the Chief Safety Officer

LLE requires use of the Buddy System

- "Buddy System" means working with a partner when:
 - Using potentially hazardous equipment or processes or
 - Working in a potentially hazardous environment
- Buddies are responsible for
 - Being available to assist in an emergency
 - Verifying that safe work practices are used
 - Remaining in contact with partner, and knowing they are OK
- Workers must submit written plans for off-hours laboratory work to their Supervisor <u>and</u> obtain written approval prior to starting.
 - Review:
 - Planned work hours
 - Activities being performed
 - Specific buddy identified
- Sign in/out at the receptionist desk when working off-hours

Know what to do and who to call when something goes wrong

Injuries / emergencies / major spills

Know where eye wash stations and safety showers are located and how to use them











To dial from a cell phone: 275-5101 Desk phones require pressing "9" first to get an outside line: "9-911"



Dump Buttons

Dump button are used to immediately disable a potential hazards often laser propagation or high voltage



Understand the function of the dump button in the area in which you will be working

Medical emergencies require a rapid response

Please note the location of the phone in any lab which you are working



To dial from a cell phone: 275-5101 Desk phones require pressing "9" first to get an outside line: "9-911"

- During working hours
 - Call the LLE receptionist to report it. The receptionist will notify the LLE's First-Responders
 - If no response, call 911
- Off-hours (nights, weekends)
 - Call 911
 - UR Public Safety will automatically be dispatched to assist with building entry
- Report all workplace injuries* to LLE Human Resources (HR)
 - HR will prepare and submit a <u>UR Employee Incident Report</u>
- * see <u>UR Policy 271</u> Workers' Compensation Insurance

Fire Safety



- Use <u>only</u> electromagnetic safety latches to hold fire doors open
- Maintain 18" clearance around fire sprinkler heads
- Maintain clear access
 - <u>></u> 48" through hallways, around doors
 - <u>></u> 36" around electrical panels, fire extinguishers, and fire alarm pull stations
- Minimize storage of flammable materials
- Inform a Safety Officer of faulty safety equipment (exit light, fire extinguisher, etc..)

These boxes are too close to the sprinkler, limiting effective coverage





Everyone must respond *immediately* to fire alarms

Evacuate and move at least 50 feet from the <u>building</u> and <u>emergency</u>
<u>equipment</u>



- Failure to respond and evacuate as quickly as possible causes delays in response and re-entry into the building
- DO NOT re-enter the building until alarms are silenced <u>and</u> beacons are off
- LLE hosts are responsible for their guests during an emergency

Emergency evacuation may be required in response to a fire, bomb threat, gas leak, et al.

The UR Medicine Imaging is LLE's assigned meeting location during an emergency evacuation

If an emergency prevents employees from re-entering LLE, employees may shelter at <u>UR Medicine Imaging</u> at 200 E. River Rd (first building east of LLE)



LLE seeks to minimize safety risks

- Operational risks are mitigated to the maximum extent practical by:
 - Engineering controls (interlocks, guards, pressure relief valve, ...)
 - Procedures and training
 - Administrative controls (restricting access, buddy system, ...)
 - Personal protective equipment (PPE)
- Never alter, remove or defeat safety features; examples include software and hardware interlocks, guards on moving machinery, electrical and laser enclosures
- Do not deviate from procedure
 - Read and understand procedures before starting work
 - Stop and obtain clarification for procedures that are unclear or inaccurate
 - Any deviation from procedure must be formalized by the applicable section leader(s) or Subject Matter Expert (SME) as an Advance Change Notice (ACN) and authorized by The Laser Facility Manager (LFM)

Good housekeeping is essential to maintaining a safe work environment

- Promptly correct, or report, slippery conditions on walkways and work surfaces
- Keep aisles and passageways unobstructed.
- Set up barriers when passage is encumbered by work-in-progress or activities prevent safe passage
- Promptly remove all clutter, tools, hardware, packaging and similar material
- Maintain a 3 foot (1 m) clear area around circuit breaker panels
- Eliminate trip hazards. Secure hoses, cables and other potential trip hazards overhead, under walkways, or cover them with a cable ramp

Everyone must help maintain a clean and organized work environment

Personal Protective Equipment

Personal Protective Equipment (PPE) is your LAST form of protection

• When safety barriers fail, PPE is critical



- PPE is effective only when worn correctly and properly maintained
- Many types of PPE are designed to withstand a single catastrophic event (e.g., hard hats, impact-resistant eyewear, fall arresters)
 - If such an event occurs, or if the PPE appears to be damaged, remove it from service immediately!
- Some PPE is designed for single-use to prevent spread of contamination (e.g., disposable gloves, mask, lab coat, ear plugs)
 - Discard single-use PPE after use
- Areas within LLE have signs indicating the specific type of PPE required.
- Each worker must know/understand what PPE is required <u>prior to starting</u> a task. Contact the work-area supervisor or a Safety Officer if there is any question about what PPE is needed



Know the capabilities and limitations of the PPE you use, and use it accordingly

The user is responsible for inspecting PPE before <u>every</u> use

- Inspect PPE for wear and damage before each use
- Keep PPE clean and in good working order
- Verify the PPE selected affords the required protection
- Immediately remove damaged PPE from service; return it to the work area supervisor who will dispose of it and replace it
- Return PPE to the point of origin. Do NOT transfer PPE from one laboratory to another
 - For example: do not "upgrade" your laser safety eyewear from another lab, the wavelengths may not be compatible



Not all safety equipment is interchangeable! Laser safety glasses ≠ Mechanical safety glasses ≠ Chemical safety goggles

Alarms inside individual labs indicate the potential for an oxygen deficient atmosphere



If alarm sounds:

- Exit the area *immediately*
- Call 9-1-1 if anyone is unable to exit the space
- Call a responsible person listed on the door sign to report the issue

No LLE employee or guest worker is permitted to enter an oxygen deficient atmosphere

Laser Safety

Lasers are classified according to the hazard they present to your eye or skin

Laser Class	Hazard Level
1	Incapable of causing injury during normal operation
1M	Incapable of causing injury <u>unless optical system is used to collect light</u>
2	Visible light laser incapable of causing injury in 0.25 seconds
2M	Visible light laser incapable of causing injury <u>in 0.25 seconds unless</u> optical system is used to collect light
3R	Safe when handled <u>carefully</u> . Can cause flash blindness and disorientation. Extended viewing could cause damage. Less than 5 mW of visible light (400-700nm)
3B	Can cause eye injury
4	Class 4 lasers have the greatest potential to cause injury. Can cause skin injury or ignite a fire

Knowing the laser class allows you to know the relative hazards of a laser.

- Class 3 and 4 can cause eye or skin injury
- Other classes will not cause eye or skin injury when used according to manufacturer's instructions

Laser radiation exposure can cause *irreversible* damage to the eyes and skin

- The eye can intensify (focus) light 100,000 times making eye exposure the principal hazard associated with laser radiation.
- The principal cause of tissue damage is thermal in nature
 - Thermal effects are caused by absorption of laser energy
- Maximum Permission Exposure (MPE) is the maximum level of laser radiation that does not cause adverse biological changes in the eye or skin. Laser Protective Eyewear is specified to reduce laser energy to below the MPE (See next slide for more information)



Contact the Safety Office immediately if you suspect eye exposure to laser has occurred or you have received a skin burn

Laser Safety Signs and Laser Protective Eyewear (LPE) refer to the OD.

- Optical Density* (OD) characterizes the fraction of light blocked (absorbed) by laser protective eyewear
 - When OD=1 at a wavelength, 90% of the incoming light at that wavelength is blocked. 1/10th of the light transmits

- When OD=5 at some wavelength, 99.999% of the incoming light at that wavelength is blocked. 1/100000th of the light transmits

- Make sure that the OD listed on the eyewear is <u>equal to or greater than</u> the OD required for every wavelength listed on the sign
 - The OD can be specified for a single wavelength or a range of
 - wavelengths



A higher OD value means the eyewear will provide greater protection at the specified wavelength(s)

Warning signs are made for each laboratory to alert you to the presence of laser hazards



- Many labs are equipped with illuminated style signs
 - Warning only applies when the illuminated sign is flashing
- Signs that are *printed* are applicable whenever *they are visible*

Before activating a laser, verify the sign is active and other personnel in room are notified

The most common causes of laser-related <u>ACCIDENTS</u> are easily mitigated

Cause	Mitigation
Misaligned optics and upwardly directed beams	Align with low power, terminate all beam paths
Unanticipated eye exposure during alignment	See above
Equipment malfunction	Perform regular maintenance. Provide additional controls before bypassing safety features
Improper methods of handling high voltage	Operator training, written procedures, de-energize when servicing
Unintentional exposure of unprotected personnel	Controlled access
Operators unfamiliar with laser equipment	Qualify all operators
Lack of protection for ancillary hazards	Failure mode analysis. Understand potential hazards and mitigate by design
Improper restoration of equipment following service	Repairs performed by trained, qualified personnel
Failure to follow operating procedures	Read, understand & follow procedures

THE PRIMARY CAUSE OF LASER EYE <u>INJURIES</u> IS UNSAFE WORK PRACTICES <u>COMBINED</u> WITH THE <u>FAILURE TO USE PROTECTIVE EYEWEAR</u> PROPERLY!

Numerous mechanical hazards exist at LLE

- Tripping
- Falling objects
- Cutting/abrasion
- Pinch points
- Elevated work surfaces
- Bump hazards
- Noise
- Slipping ...



Situational Awareness – The best way to prevent an accident is to be aware of your surroundings



Stored energy is a common metric for evaluating the potential risk associated with equipment and systems

Common mechanical energy storage mechanisms include:

- Gravity acting on any elevated mass
- Springs
- Compressed gases
 - Only persons who have completed compressed gas training (M_002) may assemble or operate a compressed gas system
- Vacuum vessels
- Pressure vessels
- Motors/actuators (any rotating machinery)
- Thermal sources
 - Heat
 - Cryogens

The uncontrolled release of stored energy can cause personal injury and collateral damage to nearby equipment

Safely-designed equipment can be made unsafe by altering its construction or operating conditions

ME must provide explicit authorization for:

- Deviations from assembly procedure
- Material substitutions
- Changes to joint design, including fastener changes (material, grade, size, etc.)
- Changes to fastener torque specifications
- Ensure the safety of mechanical equipment and its use
- Inspect compressed gas and vacuum systems prior to operation

Electrical Safety

Electrical Safety Policies

- If it is 50 Volts or Greater, it is High Voltage (HV)
 - Additional training is required for anyone working on or repairing HV equipment
- Only Facility Electricians are permitted to:
 - Open/close/reset circuit breakers in electrical panels
 - Modify electrical distribution services
 - Service energized equipment, by permit and review by the Chief Safety Officer







Physiological Effects of Electricity

Effects of Electrical Current* on the Body ³		
Current	Reaction	
1 milliamp	Just a faint tingle.	
5 milliamps	Slight shock felt. Disturbing, but not painful. Most people can "let go." However, strong involuntary movements can cause injuries.	
6–25 milliamps (women)† 9–30 milliamps (men)	Painful shock. Muscular control is lost. This is the range where "freezing currents" start. It may not be possible to "let go."	
50–150 milliamps	Extremely painful shock, respiratory arrest (breathing stops), severe muscle contractions. Flexor muscles may cause holding on; extensor muscles may cause intense pushing away. Death is possible.	
1,000–4,300 milliamps (1–4.3 amps)	Ventricular fibrillation (heart pumping action not rhythmic) occurs. Muscles contract; nerve damage occurs. Death is likely.	
10,000 milliamps (10 amps)	Cardiac arrest and severe burns occur. Death is probable.	
15,000 milliamps (15 amps)	Lowest overcurrent at which a typical fuse or circuit breaker opens a circuit!	

†Differences in muscle and fat content affect the severity of shock.

Electric shock victims suffering from ventricular fibrillation will die if they do not receive prompt, emergency medical attention

LLE Lockout / Tagout Policy

- LOCKOUT installation of a physical barrier or removal of a connecting link to prevent operation of component
- TAGOUT placement of tag on breaker, switch, control device or valve stating "DANGER DO NOT OPERATE"
- Immediately notify Supervisor if equipment is suspected of presenting a hazard to personnel or other equipment.
- LLE staff are responsible for ensuring that equipment is properly locked/tagged out and recorded
- Guest Workers may not remove "Danger – Do Not Operate" tags



LLE electrical safety policies

- Extension cords
 - 500W maximum (UR policy)
 - May not be connected in series
- Equipment used at LLE must be UL certified, or have approval of LLE Electrical Safety Officer

Warn, damaged, frayed or deteriorated cord? Ground pin missing? STOP! Seek assistance



Common Sense Practices

- Allow proper ventilation for power dissipating equipment. Keep air filters clean.
- Investigate "hot" or unusual smells around equipment.
- Turn off unused equipment (excluding LLEmanaged PC's)
- Prior to activation of remote (OUT OF SIGHT) equipment verify clear and secure
- Never leave a potentially hazardous situation unattended for ANY REASON
- Recognize and mitigate hazards to others. Use simple warning signs to communicate dangers or possible risks
- Employ good housekeeping







Ask for help before it is too late!

Chemical labeling follows the Globally Harmonized System (GHS) for hazard communication guidelines



Cabinet label:



Pictograms communicate chemical hazards



Flammables are separated into four categories according to their flash points and boiling points

Category 1 (extremely flammable):

- Flash point < 73.4°F (23°C)
- Boiling point ≤ 95°F (35°C)

Category 2 (highly flammable):

- Flash point < 73.4°F (23°C)
- Boiling point > 95°F (35°C)

Category 3 (Flammable liquid and vapor):

Flash point ≥ 73.4°F (23°C) and ≤ 140°F (60°C)

Ex: Acetic acid, acetylacetone

Category 4 (Combustible liquid):

Flash point ≥ 140°F (60°C) and ≤ 199.4 °F (93 °C)

Ex. Kerosene, chloroform





WARNING (no symbol)

Explosion and fire are the two primary hazards associated with flammable and combustible liquids

- Many organic solvents are *highly flammable*
- Common organic solvents used at LLE include (but are not limited to):
 - Isopropanol

Methyl ethyl ketone (MEK)

- Methanol
- Methylene chloride
- Acetone

Toluene







Always review safety information and work in a fume hood when using organic solvents

No more than 3 gallons of flammable solvent may be stored in any room, outside an approved storage cabinet

> All flammable solvents in excess of the 3-gal. limit must be stored in approved flammable solvent storage cabinets

Solvents outside of flammable cabinets should be stored in secondary containment ≥ 110% of the container(s) volume

Verify proper storage is available before ordering

Both insulated and self-closing, air-tight doors provide high fire resistance

Items must NOT be stored on top of a flammables cabinet



Eye protection and gloves are mandatory for <u>all</u> chemical operations at LLE



Don't spread contaminants. Remove gloves before touching keyboards, telephones or door handles Glove holding sample No Glove on door handle



Food and beverages are prohibited in laboratories



Strictly prohibited by governmental, UR, and LLE regulations and guidelines!

Contact with "sharps" can result in serious injuries

- Razor blades/scalpels
- Broken glass items (including optics)
- Syringe needles (new or used)
- Microscope slides
- Pipettes



 Use non-biohazard sharps containers (small items) or glass disposal boxes







NEVER put sharps or glass items in the regular trash!

Syringe needles should *NEVER* be bent, sheared, or re-capped using two hands - either during use or before disposal





- Alternative: one-handed "scoop" technique
 - place needle cap on table
 - hold syringe only, guide needle into cap
 - lift syringe so that cap is sitting on needle hub
 - secure needle cap in place



- Better: use a safety needle
 - mechanism to blunt or cover the needle after use
 - one-handed operation



Many waste materials are designated as "hazardous"

- Batteries (toxic, corrosive, reactive)
 - lead-acid, mercury, NiCd, NiMH, Li+, AgO
 - alkaline and carbon batteries may be disposed of in the regular trash
- "Sharps" (toxic)
- "Universal wastes" (toxic)
 - mercury-containing items (lamps, bulbs, switches, electronics, pressure/vacuum monitors, thermostats)
- "E-waste" (toxic)
 - computers, power supplies, electronics, circuit boards, lasers
- Beryllium and other powdered metals (toxic, ignitable)
- Aerosol cans (ignitable, corrosive, toxic)

Contact your the Safety Office to assist with disposal of hazardous wastes

Know what to do if a chemical exposure occurs

Touching, breathing or ingesting harmful chemicals can result in varying symptoms with different degrees of danger.

- Mild reactions can include tearing of the eyes, burning sensation of the throat, nose, chest, or skin
- Severe reactions can include coughing, wheezing, dizziness, and even death
- For ingestion or other serious exposures, *immediately*:
 - Alert the LLE Medical Response Team (by calling LLE reception)
 - <u>And</u> call Poison Control 1-800-222-1222

For eye or skin exposure:

• Flush exposed area for 15 minutes

For inhalation exposure:

Move victim to fresh air



Report all chemical exposure incidents to a Chemical Safety Officer, and the Chief Safety Officer

Summary

- LLE's Safety Officers and Subject Matter Experts (SME) are available to discuss any questions or concerns you have about safety policies and practices at LLE
- Workers who engage in laboratory activities at the Laboratory for Laser Energetics (LLE) need to understand and follow site-specific safety policies
- All workers must read and follow instructions on signs when entering a laboratory space





Email the <u>Safety Office</u> to report completion of this training