LionSafe Assessment Definitions

LionSafe Risk Assessment

Sort Order	Checklist Question / LRA Applicability Details
LRA Administrative Section	
1.0	***As the Responsible Person of my work group, I certify that I will ensure all members of my work group have reviewed this assessment entirely. Everyone will be aware and understand the potential hazards and how to control them within the scope of their work.***
1.1	***Select the option that best describes your role for this work group (only the roles listed are permitted to complete this assessment):***
1.2	***Other Role (please specify):***
1.3	***Provide a brief description of your group's work/research including website links that may apply for your workgroup.***
1.4	***Confirm your LionSpace room assignments are accurate.*** The University uses a space management system (aka LionSpace) to assign rooms to Principal Investigators and other responsible persons. These space assigned should reflect the current locations for which the Responsible Person is conducting their primary work activities; excluding core facilities. _____ Access to the list of LionSpace room assignments are available as follows: OPTION 1 - Contact your facility coordinator to confirm current room assessments. OPTION 2 - Review your LionSAFE Safety Summary Report which lists the LionSPACE room assignments within the report. https://www.opp.psu.edu/planning-design-and-properties
1.5	***Identify if your group conducts work in other secondary locations (e.g., core facilities, research farms, or other remote locations).*** https://www.opp.psu.edu/planning-design-and-properties
1.6	***Describe secondary locations where your group conducts work.***
1.7	***Provide a roster for those who conduct work associated with this LionSafe Risk Assessment.*** OPTION 1 - A member roster can be attached to facilitate this information. OPTION 2 - Update your Employee Roster within LionSafe. One benefit to this method is that it provides read-only access to the Responsible Persons dashboard. This includes access to the LionSafe Risk Assessment, chemical inventory, assessments, waste requests and other features within LionSafe.
1.8	***Provide a primary contact phone number(s) for the Responsible Person and work group in case there are questions about this assessment.***

Sort Order	Checklist Question / LRA Applicability Details

Chemical Safety

2.9 *Our group uses and/or stores chemicals (includes compressed gas cylinders) in a laboratory environment.*

PROGRAM APPLICABILITY:
Students, Researchers, and University Employees who handle chemicals in instructional and research laboratory settings.

PROGRAM DEFINITION:
This program applies to work involving chemical manipulations carried out on a laboratory scale, whereby multiple different chemicals are often used and handled in laboratory settings.

https://ehs.psu.edu/chemical-safety/overview

2.12 *Our group uses and/or stores hazardous chemicals (includes compressed gas cylinders) in a non-laboratory environment (i.e. maintenance shop, farm, grounds/landscape, etc.).*

PROGRAM APPLICABILITY:
This program applies to all non-laboratory work areas that utilize hazardous chemicals including, but not limited to, machine shops, maintenance shops, garage areas, and janitorial/custodial storage areas.

PROGRAM DEFINITION:
A hazardous chemical includes any chemical which is classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified.Examples include, but are not limited to, safety glasses, gloves, respirators, hearing protection, foot protection. These terms will be found on the product label and Safety Data Sheets (SDS).

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT: https://ehs.psu.edu/hazcom/overview

Explosive Materials Management

3.17 *Our work involves shock sensitive, explosive, energetic, and/or unstable materials.*

PROGRAM APPLICABILITY:
-University employees, students, and visitors who handle or supervise individuals who handle energetic or unstable materials in their work.
-Regardless of ATF formal registration and program, EHS wants to conduct risk assessment (or ensure that a proper risk assessment was done) on the laboratory handling and storage procedures for unstable/energetic materials.
-Contact the Chemical Hygiene Officer if you possess these materials.

PROGRAM DEFINITION:
Examples of unregulated shock-sensitive, explosive, energetic and/or unstable materials include high burn rate finely-divided or powdered metals, pyrotechnics, solid rocket fuels, white phosphorous, thermite, sodium azide, transition metal perchlorates, certain organic peroxides, diazo compounds, or nitro-functionalized organic compounds.

Chemical Facility Anti-Terrorism Standards

4.20 *Our work group has (or plans to obtain) chemical(s) listed on the Department of Homeland Security (DHS) Chemical of Interest (COI) that exceeds the Screening Threshold Quantity (Appendix A).*

PROGRAM APPLICABILITY:
Applies to any facility that has a chemical(s) listed in Appendix A above the Screening Threshold Quantity.

PROGRAM DEFINITION:
CFATS program identifies and regulates high-risk chemical facilities to ensure security measures are in place to reduce the risk of certain hazardous chemicals being weaponized.

PROGRAM EXECUTIVE SUMMARY:
https://ehs.psu.edu/sites/ehs/files/2024-02/CFATS%20Overview%20Fact%20Sheet.pdf

Sort Order	Checklist Question / LRA Applicability Details

Pesticides

5.22 *Individuals in our group apply (use), store, or transport registered pesticides.*

PROGRAM APPLICABILITY:
-University employees, visitors and students (non-employees) who apply pesticides.
-University employees, visitors or students, who work or conduct research at an agricultural facility (nursery, farm, greenhouse, laboratory, research center, etc.) where pesticides are applied.
-Work units that contract with vendors for pesticide applications.

PROGRAM DEFINITION:
Pesticides include: rodenticides, herbicides, fungicides, insecticides, swimming pool chemicals, etc.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/pesticide-management/overview

5.26 *Individuals in our group come into contact with pesticide treated areas (agricultural areas, green houses, etc.) and/or maintain equipment used for application of pesticides.*

PROGRAM APPLICABILITY:
-University employees, visitors or students, who work or conduct research at an agricultural facility (nursery, farm, greenhouse, laboratory, research center, etc.) where pesticides are applied.
-Work units that contract with vendors for pesticide applications.

PROGRAM DEFINITION:
Pesticides include: rodenticides, herbicides, fungicides, insecticides, swimming pool chemicals, etc.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/pesticide-management/overview

Gas Monitoring

6.28 *Our group uses compressed gases as covered by University Safety Policy SY25 and the release of the gas poses an immediate physical/health risk to room occupants (immediate risk evaluation is typically conducted in consult with EHS).*

PROGRAM APPLICABILITY:
Applies to use of compressed gases covered by University Safety Policy SY25 - Compressed Gas Cylinders, except in situations for short term use of limited quantities (lecture bottles - typically 12-18 inches long and 1-3 inches in diameter) in a chemical fume hood. Short term is considered less than 14 calendar days. Additional exclusions may be identified within the document as appropriate for the gas in question.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/sites/ehs/files/EHS%20Snapshot%20-%20Gas%20Monitoring%20Program.docx

6.30 *Our work unit has a gas detection system.*

GAS MONITORING APPLICABILITY:
Depending on characteristics and volume of your gases, you may be required to have a gas monitoring system.

Sort Order	Checklist Question / LRA Applicability Details

Chemical Waste Management

7.32 *Our group generates hazardous and/or chemical waste in a research setting.*

PROGRAM APPLICABILITY:
University employees, researchers, and students who generate, handle, or supervise those who generate or handle hazardous waste in the performance of their duties within laboratory areas. This plan covers groups generating waste from teaching and research labs, art studios, photo labs, field labs, diagnostic labs, and areas that support labs (e.g., chemical stockrooms, prep rooms, etc.).

PROGRAM DEFINITION:
Examples of hazardous waste include chemicals for disposal such as: corrosive, flammable, reactive, or toxic chemicals, oil-based paint, gasoline, ethanol, muriatic acid, pesticides, and universal wastes.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/sites/ehs/files/EHS%20Snapshot%20-%20Laboratory%20Waste%20Management.doc

https://ehs.psu.edu/chemical-and-hazardous-waste-management/overview

7.35 *Our group generates hazardous and/or chemical waste in a non-research setting.*

PROGRAM APPLICABILITY:
University employees, technicians, and contractors who generate, handle, or supervise those who generate or handle hazardous waste in the performance of their duties.

PROGRAM DEFINITION:
Examples of hazardous waste include chemicals for disposal such as: corrosive, flammable, reactive, or toxic chemicals, oil-based paint, gasoline, ethanol, muriatic acid, pesticides, and universal wastes.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/chemical-and-hazardous-waste-management/overview

Universal Waste Management

8.38 *Our group generates universal waste (e.g., batteries and mercury arc lamps or lightbulbs) in a research setting. Refer to Program Definition for complete list of universal waste types.*

PROGRAM APPLICABILITY:
University employees, researchers, and students who generate, handle, or supervise those who generate or handle universal waste in the performance of their duties within laboratory areas. This plan covers groups generating waste from teaching and research labs, art studios, photo labs, field labs, diagnostic labs, and areas that support labs (e.g., chemical stockrooms, prep rooms, etc.).

PROGRAM DEFINITION:
Examples of universal waste include batteries, pesticides, mercury containing equipment, lamps, and aerosol cans.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
(Internal note) Snapshot coming soon.

https://ehs.psu.edu/chemical-and-hazardous-waste-management/requirementsguidelines

Sort Order	Checklist Question / LRA Applicability Details

Universal Waste Management

8.41 *Our group generates universal waste (e.g., batteries, mercury lamps, pesticides) in a non-research setting. Refer to Program Definition for complete list of universal waste types.*

PROGRAM APPLICABILITY:
University employees, technicians, and contractors who generate, handle, or supervise those who generate or handle universal waste in the performance of their duties.

PROGRAM DEFINITION:
Examples of universal waste include batteries, pesticides, mercury containing equipment, lamps, and aerosol cans.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
(Internal note) Snapshot coming soon.

https://ehs.psu.edu/chemical-and-hazardous-waste-management/requirementsguidelines

Human Subjects

9.44 *Our work (research or instruction) involves human subjects.*

PROGRAM APPLICABILITY:
Penn State faculty, staff, students, or affiliates who will conduct research involving human subjects must register with the Institutional Review Board (IRB) and meet requirements outlined by the Human Research Protection Program.

PROGRAM DEFINITION:
The Human Research Protection Program (HRPP)?is the Institutional Review Board (IRB) office for the entire University and provides support for all Penn State researchers,?including those at the College of Medicine and Penn State Health.

Biological Materials

10.45 *Our work (research or instruction) involves biological materials such as: microorganisms, live cells or cell lines, intact tissues, recombinant or synthetic nucleic acids, human blood or body fluids, live animals and/or plants.*

PROGRAM APPLICABILITY:
University employees, students, and visitors who handle or supervise individuals who handle biological materials.

PROGRAM DEFINITION:
The biosafety program is very broad and includes research and instructional activities that involve any biological materials. Certain training requirements apply for all academic uses of biological materials and additional requirements may apply for specific materials. These details will be addressed in subsequent sections of this assessment. Work with regulated biological materials (as per RP11) must be submitted to the IBC and approved prior to use.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/biosafety/overview

Sort Order	Checklist Question / LRA Applicability Details

Bloodborne Pathogens (Non-Research/Non-Instructional)

19.72 Our group has a reasonable anticipation that individuals could be exposed to human blood, blood products, or other potentially infectious materials from human sources in the performance of their job duties.

PROGRAM APPLICABILITY:
-University employees and visitors who could be exposed to human blood or infectious body fluids during the course of their work activities.
-This always includes: Sports trainers, health care personnel, and lifeguards.
-This may include full and part-time: Police and security personnel who could be exposed to blood/bodily fluids.
-Maintenance janitorial, or other employees who may be expected to clean up blood spills in the course of their job duties.
- Note: If your exposure would occur in the context of academic research, please see the BIOSAFETY (BBP) section.

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PROGRAM DEFINITION:
The bloodborne pathogens program is meant to satisfy the requirements of the OSHA Bloodborne Pathogens standard (29 CFR 1910.1030). This standard specifically defines other potentially infectious materials, which includes most human bodily fluids or unfixed tissues or organs from humans. It excludes saliva that is not visibly contaminated with blood, menstural products, or bandages that are not fully saturated with blood. In other words, first aid bandages Band-Aids, tissues that have handled nosebleeds, or menstrual products are generally not considered OPIM. Full details of the program requirements can be found in the University's Bloodborne Pathogens Exposure Control Plan.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
?https://ehs.psu.edu/bloodborne-pathogen/overview

Biological Waste Management (Regulated Medical Waste)

20.75 Our group generates regulated medical waste, such as: infectious waste from activities that are performed above BSL-1, recombinant and/or synthetic nucleic acids, and/or human bodily fluids or tissues in the course of our job duties.

PROGRAM APPLICABILITY:
University employees, students, and visitors who generate or handle regulated medical waste in the performance of their duties.

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PROGRAM DEFINITION:
Infectious waste includes, but is not necessarily limited to, the following: human blood and other potentially infectious materials, microorganisms that are pathogenic to humans, animals, or plants, and recombinant DNA. The disposal of these materials is regulated at the state and federal level.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/infectious-waste-management/overview

Ionizing Radiation

21.77 Our work or space involves ionizing radiation hazards such as x-ray beams, sealed sources, generally licensed radioactive materials, dispersible radioactive materials, and/or nuclear materials.

Non-Ionizing Radiation

27.101 Our work or space involves non-ionizing radiation hazards including lasers, microwaves, magnetic fields, RF antennae, and/or UV sources.

Sort Order	Checklist Question / LRA Applicability Details

Hazardous Materials Shipping

32.114 *Our group needs to ship dangerous goods in the course of our job duties. (This may include chemicals, compressed gases, biological, radiological materials, dry ice, any combination of these materials, etc.).*

PROGRAM APPLICABILITY:
University employees or students that ship dangerous goods.

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PROGRAM DEFINITION:
The shipment of dangerous goods is regulated by US Department of Transportation (DOT) and the International Air Transport Association (IATA). Because there is an extensive certification process to be authorized to ship these materials, EHS provides shipment preparation services. Anyone at Penn State who ships these materials needs to coordinate the shipment through EHS.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/hazardous-materials-shipping/overview

https://ehs.psu.edu/hazardous-materials-shipping/requirements-guidelines

Personal Protective Equipment

33.115 *Our group uses Personal Protective Equipment (PPE) in the course of our work. This includes lab or non-lab work as well as voluntary and/or required use of PPE. Examples of PPE can include gloves, safety glasses, respirators, hearing protection, etc.*

PROGRAM APPLICABILITY:
-University employees who use Personal Protective Equipment or PPE as a means of controlling exposure to workplace hazards.
-PPE encompasses a wide variety of devices that form a barrier between the user and workplace hazards. Examples of PPE include safety glasses, gloves, respirators, hearing protection, foot protection, etc.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/ppe/overview

Respiratory Protection

34.118 *Respiratory hazards exist which currently or may require individuals to wear respiratory protection to conduct work.*

PROGRAM APPLICABILITY:
-University employees, student employees, and visitors who wear respiratory protection while performing work for Penn State.
-The Respiratory Protection Program (RPP) applies to all types of respirator use (air-filtering or air-supplying), where such respirator use is required. Certain provisions of the RPP apply to voluntary use of respirators, which may include various respirator types, including dust masks (filtering face-piece respirators).

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/respiratory-protection/overview

Sort Order	Checklist Question / LRA Applicability Details

Hearing Conservation

35.121 *Individuals in our group are exposed to loud environments and/or wear hearing protection in the course of their work.*

PROGRAM APPLICABILITY:
All University employees and students who operate gas powered or other noisy equipment or who work in noisy areas, including animal spaces.

PROGRAM DEFINITION:
-Rule-of-thumb for noisy areas or equipment: If you must raise your voice to clearly communicate with someone 3 feet away you need hearing protection. Contact EHS to confirm they are aware of the noise source and to perform necessary noise monitoring.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/hearing-conservation/overview

Ergonomics and Material Handling

36.125 *Individuals in our group conduct tasks that involve awkward postures, repetitive motions, material handling (heavy operations), or pinch points that present a workplace hazard.*

ERGONOMICS AND MATERIAL HANDLING APPLICABILITY:
Examples may include but not limited to:
- lifting more than 50lbs
- handling large animals
- performing repetitive tasks

https://ehs.psu.edu/ergonomics/overview

Fall Protection

37.126 *Individuals in this group work in unguarded locations 4 feet or more above lower surfaces (i.e. no guardrails) and/or operate aerial or scissor lifts.*

PROGRAM APPLICABILITY:
-University employees who have the potential to be exposed to a fall hazard.
-University employees who utilize fall protection equipment such as harnesses and lanyards.
-The specific training requirements and safe work practices regarding ladders, scaffolds, and aerial lifts is not covered in detail within this program.

PROGRAM DEFINITION:
Fall hazards can include working at elevations four feet or higher, such as unprotected roofs or platforms and aerial/boom/scissor lifts.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/fall-protection/overview

Ladders

38.130 *Individuals in our group utilize step ladders, step stools, single ladders, articulated ladders, combination ladders, extension ladders, extension trestle ladders, fixed ladders, and/or mobile ladder stands.*

PROGRAM APPLICABILITY:
This program applies to all employees and students utilizing types of ladders including but not limited to: step ladders, step stools, single ladders, articulated ladders, combination ladders, extension ladders, extension trestle ladders, fixed ladders, and mobile ladder stands.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/ladder-safety/overview

Sort Order	Checklist Question / LRA Applicability Details

Scaffolding

39.133 Individuals in this work unit use or erect a form of scaffolding.

PROGRAM APPLICABILITY:
This program covers University employees who use or erect scaffolds.

PROGRAM DEFINITION:
Scaffold types included in the scope of the program are: Bakers Scaffold & Fabricated Frame/Frame Scaffold.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/scaffold-safety/overview

Aerial/Scissor Lifts

40.136 Individuals in our group operate an aerial and/or scissor lift.

PROGRAM APPLICABILITY:
This program applies to all University employees who operate aerial/scissor lifts.

PROGRAM DEFINITION:
Equipment which is utilized to elevate operators such as articulating boom lifts, man-lifts/cherry pickers, scissor lifts, extendable/telescoping aerial lifts, and vehicle mounted aerial/buck trucks.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/aerial-scissor-lifts/overview

Powered Industrial Trucks

41.140 Individuals in this group operate a powered industrial truck (i.e. forklift, powered pallet jack).

PROGRAM APPLICABILITY:
-University employees who operate a powered industrial truck.
-This program does not apply to the following types of machinery: farm vehicles and vehicles intended primarily for earth moving or over-the-road hauling, Segways, golf carts, Gators, quads, and other similar types of rough terrain vehicles.

PROGRAM DEFINITION:
A powered industrial truck is a mobile, power-propelled trucks used to carry, push, pull, lift, stack, or tier materials including forklifts, narrow aisle trucks, and hand trucks.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/pit/overview

Crane, Hoist, and Sling

42.144 Individuals in this work unit operate cranes and/or hoists.

PROGRAM APPLICABILITY:
University employees who operate cranes and hoists as well as rigging equipment such as slings.

PROGRAM DEFINITION:
Cranes & Hoists include the following types: overhead and gantry cranes, semi-gantry cranes, cantilever gantry cranes, wall cranes, monorail cranes, bridge cranes, single girder cranes, overhead hoists, and other hoists and cranes having the same fundamental characteristics.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/crane-hoist-sling/overview

Sort Order	Checklist Question / LRA Applicability Details

Theatre Rigging

43.150 Individuals in this work group work in a theatre that uses one of the following rigging systems; motorized systems, counterweighted systems, stationary systems and hemp systems.

PROGRAM APPLICABILITY:
-This program applies to the following rigging systems used by PSU employees within theatre areas: motorized systems, counterweighted systems, stationary systems and hemp systems.
-This program does not apply to the following:
-Cranes, hoists and slings as specified in the PSU Crane, Hoist & Sling Safety Program.
-Fire curtains.
-Items temporarily connected to battens (such as curtains, artwork, props, or set designs). Despite this exception, all items must be secured to battens according to industry standards.

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PROGRAM DEFINITION

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.prod.fbweb.psu.edu/theatre-rigging/overview

Confined Spaces

44.154 Individuals in our group enter, attend, assess, or supervise confined spaces or permit required confined spaces.

PROGRAM APPLICABILITY:
University employees who enter, attend, or supervise confined space, or permit-required confined space (PRCS) entry work, or who provide related rescue support, in any Penn State facilities.

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PROGRAM DEFINITION:
-A confined space is a space that is large enough to bodily enter, not intended for continuous occupancy, and has limited means of entry and egress.
-A permit-required confined space meets the definition of a confined space and may have one or more of the following: a potentially hazardous atmosphere, materials that may engulf an entrant, internal configuration which could entrapment an entrant or any hazard and other serious safety or health hazard.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/confined-space/overview

Trench and Excavation

45.157 Individuals in this group enter trenches/excavations of depths of 4 feet or more.

PROGRAM APPLICABILITY:
This program applies to all PSU employees and students (unpaid) that enter trenches and/or excavations that are 4 feet in depth or greater.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.prod.fbweb.psu.edu/trench-excavation/overview

Sort Order	Checklist Question / LRA Applicability Details

Energized Electrical

46.160 *Individuals in our group perform electrical work (i.e. servicing/maintenance/testing/troubleshooting) on or near electrical systems (i.e. conductors/components).*

PROGRAM APPLICABILITY:
University employees who may work on or near electrical systems and thus have the potential to be injured by electric shock, arc flash, or arc blast.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/energized-electrical-safety/overview

46.165 *Individuals in our group operate electrical disconnect devices, including circuit breakers and fused switches ("knife switches").*

TRAINING APPLICABILITY:
Individuals whose only electrical work involves the operation of electrical disconnect devices, including circuit breakers and fused switches ("knife switches"), are required to take Electrical Disconnect/Circuit Breaker Safety Training

Lockout/Tagout

47.166 *Our group services or maintenances equipment which could cause injury if unexpectedly energized.*

PROGRAM APPLICABILITY:
-University employees and contractors who service, maintain, or modify equipment.
- Work on cord and plug-connected equipment is not covered by this program if unplugging the equipment controls all energy and the plug remains under the continuous control of the employee performing the service work.

PROGRAM DEFINITION:
Lockout Tagout (LOTO) is used to prevent the release of hazardous energy that can occur during equipment servicing, maintenance, or modification. Examples of hazardous energy may include electrical, hydraulic, pneumatic, thermal, chemical, suspended parts, or any other form of energy that presents a hazard.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/lockout-tagout/overview

47.171 *Individuals in this group operate equipment or are required to work in an area where servicing or maintenance of equipment (lockout/tagout activity) is performed.*

LOTO AFFECTED PERSON APPLICABILITY:
Individuals that operate equipment or are required to work in an area where servicing or maintenance of equipment (lockout tagout activity) is performed but do not perform servicing/maintenance (lockout tagout) of equipment.

Hot Work

48.173 *Individuals in our group perform Hot Work activities involving the use of open flame devices (torch), heat guns, grinders, and/or other activities which produce heat or sparks.*

PROGRAM APPLICABILITY:
-University employees, students and contractors who may perform Hot Work in university buildings or on equipment with combustible / flammable materials in the immediate area.

PROGRAM DEFINITION:
-Hot Work activities include temporary operations involving the use of open flames or which produces heat and / or sparks.
-Examples include: brazing, cutting, grinding, torch soldering, thawing pipes, torch applied roofing, welding and use of heat guns.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/hot-work/overview

Sort Order	Checklist Question / LRA Applicability Details

Hazardous Building Materials (Asbestos/PCBs)

49.176 Individuals in our group perform building maintenance, repair, construction, renovation, or custodial operations.

PROGRAM APPLICABILITY:
This program applies to all University employees

PROGRAM DEFINITION:
Hazardous building materials are found in many of our buildings. Asbestos-containing materials may include flooring, thermal insulations, plasters, and wall / ceiling systems, while PCB-containing materials may include various types of caulks and glazing putties.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/asbestos-management/overview

Hazardous Building Materials (Lead)

51.180 Individuals in our group perform manual demolition of painted surfaces or perform paint preparation activities that may involve the disturbance of paint, such as manually scraping or wire brushing loose paint, chemical paint stripping, or other actions that could potentially create lead dust or fumes.

PROGRAM APPLICABILITY:
This program applies to employees who perform manual demolition of painted surfaces or perform paint preparation activities that may involve the disturbance of paint, such as manually scraping or wire brushing loose paint, chemical paint stripping, or other actions that could potentially create lead dust or fumes.

PROGRAM DEFINITION
Lead-containing paint is found in many of our buildings. Although lead-based paint was banned in 1978, even newer paints can contain lead at lesser concentrations.

Respirable Crystalline Silica

52.182 Individuals in our group work with or disturb Respirable Crystalline Silica (RCS) containing materials or products in construction, maintenance, laboratory/academic, or other settings.

PROGRAM APPLICABILITY:
Employees, student employees, contractors, and visiting academic personnel performing work with or disturbing respirable crystalline silica (RCS) containing materials or products, whether in construction, maintenance, laboratory/academic, or other settings. An initial hazard assessment must be performed to determine if exposures warrant inclusion in the program. Contact EHS to conduct this monitoring.

PROGRAM DEFINITION:
Some examples of RCS-containing material tasks include, installing or replacing indoor concrete or outdoor concrete, brick, stone, terrazzo, or ceramic tile via cutting, drilling, jackhammering, grinding, milling, geological research involving the use of fine sand or other RCS materials or ceramic pottery-making, among others.

PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/respirable-crystalline-silica/overview

Sort Order	Checklist Question / LRA Applicability Details

Machine Shops

53.185 *Individuals in our group work in a machine shop or portion of a room dedicated for the housing of powered shop equipment.*

PROGRAM APPLICABILITY:
This program covers all rooms that house shop equipment and are used for either:
-Student instruction and/or the completion of tasks/assignments.
-The completion of work tasks by PSU employees.

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PROGRAM DEFINITION:
A typical machine shop consists of an entire room or a portion of a room dedicated for the housing of powered shop equipment (i.e. lathes, table saws, drill presses, planer, CNCs, jointers, miter saws, etc).

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/machine-shop-safety/overview

Field Safety

54.188 *Our group performs field research or similar activities.*

PROGRAM APPLICABILITY:
Field research safety, health, and security processes apply to anyone performing research or research support activities in remote locations, at field sites without cellular service, at field sites characterized by outdoor activities and hazards, at field sites that require travel off-campus, and at field sites where there is risk of limited life-sustaining provisions.

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PROGRAM DEFINITION:
The field research safety process involves hazard identification, evaluation, and control to reduce risk associated with field work.

Process Safety Management

55.191 *Individuals in our group operate, work on, or have the ability to impact equipment operations associated with the University's Process Safety Management covered process units (i.e., NH3 Refrigeration Systems, Biological Effluent Decontamination Systems (EDS's), or MSC's Toxic Gas Monitoring System)*

PROGRAM APPLICABILITY:
University operations where a highly hazardous chemical / biological agent or extremely hazardous substance deemed by Penn State is used, handled, or stored. This also includes critical process operations identified by the University that would benefit from Process Safety Management (PSM) program implementation.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/process-safety-management/overview

Robotics

56.194 *Our group utilizes industrial robot arms, mobile robots, and/or collaborative robots.*

ROBOT USAGE APPLICABILITY:
If unsure whether your work space utilizes these types of robots, contact EHS.

Kitchen Safety

57.198 *Our group operates a commercial grade kitchen for either academic or operational purposes.*

KITCHEN SAFETY APPLICABILITY:
Commercial grade kitchens are subject to EHS assessments.

Sort Order	Checklist Question / LRA Applicability Details

Environmental Emergency Plan

58.199 Our facility stores or produces quantities of hazardous or regulated chemicals (fuel included) in volumes exceeding reportable quantities that pose a threat to human or environmental health and safety.

PROGRAM APPLICABILITY:
-Facilities that store hazardous substances or oil in quantities of 55-gallons or more or who store extremely hazardous substances above the threshold planning quantity.
- Extremely hazardous substances and their threshold planning quantities are given in the List of Lists. Contact EHS for assistance if needed.

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PROGRAM DEFINITION:
Hazardous materials are an item or agent (biological, chemical, radiological, and/or physical) that has the potential to cause harm to humans, animals, or the environment either by itself or through interaction with other factors.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/environmental-emergency-plans/overview

Storage Tanks

59.202 Our facility utilizes above ground storage tanks (AST) and/or underground storage tanks (UST).

PROGRAM APPLICABILITY:
University employees who utilize or are responsible for a storage tank.

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PROGRAM DEFINITION:
An AST is considered to be a mobile or fixed tank in excess of 55-gallons containing petroleum or chemical products. An UST is considered any subsurface tank in excess of 55-gallons containing petroleum or chemical products.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/storage-tank-management/overview

Spotted Lanternfly

60.206 Our group has vehicles and/or employees that travel within the Pennsylvania Department of Agriculture's Spotted Lanternfly (SLF) Quarantine Zone.

PROGRAM APPLICABILITY:
-University Employees who travel within the Pennsylvania Department of Agriculture's Spotted Lanternfly (SLF) Quarantine Zone.

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PROGRAM EXECUTIVE SUMMARY / SNAPSHOT:
https://ehs.psu.edu/spotted-lanternfly/overview