

# 2024 Laboratory Self Audit Preview

The Lab Self-Audit (LSA) is a mandatory self-inspection program for FIU's academic and research community conducted annually through an online survey to:

- Promote individual accountability for safety and regulatory compliance
- Encourage a proactive approach to environmental health and safety issues
- Facilitate a better understanding of regulatory compliance
- Reduce incidents, injuries, and violations through effective communication and training

***This document is a preview of the online survey*** to help identify safety and compliance concerns and provide resources to address any gaps. The LSA must be submitted online; physical and e-copies will not be accepted. For more information, visit EH&S' LSA webpage: <https://ehs.fiu.edu/safety-programs/laboratory/index.html#3>

**Timeframe:** The LSA will be open for three (3) full months:

- **Starting:** August 1st, 2024
- **Ending:** October 31st, 2024

**Legend:**

**Display Logic:** indicates questions that will display when conditions are met.

**Skip Logic:** indicates questions that will skip ahead when conditions are met.

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### Introduction Block

#### Q1.1 Welcome to the 2024 Laboratory Self Audit (LSA).

Please ensure that you have knowledge of the operations and hazards associated with the space and have the authority to influence the implementation of corrective action(s), such as the Principal Investigator (PI), Laboratory Manager, or Laboratory Staff.

Students, Interns, or Volunteers are not authorized to participate in the LSA to abide by the Family Educational Rights and Privacy Act.

Please note that EH&S will not accept submissions using a student email address. Be objective and honest in the LSA. The LSA is designed to help identify areas where improvement is needed. You and your staff are best positioned to know the hazards in your processes/environment and implement appropriate controls.

Questions or concerns? Contact the Program Coordinator, Victoria Villa, at [vmvilla@fiu.edu](mailto:vmvilla@fiu.edu).

Please initial below to affirm that you have the knowledge and authority to submit the LSA on behalf of your space and that you will be objective, honest, and truthful in your submissions.

\_\_\_\_\_

#### Q1.2 Who is submitting the form?

- The Group Lead (Principal Investigator or Academic Laboratory Manager)
- Authorized Alternate

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### Identification Block

#### Q2.1 Identify Group Lead (Principal Investigator or Academic Laboratory Manager)

Only Use FIU Employee Emails and the official title/role. EH&S will reject the submission if an FIU student email is used or if the role contains "student," "intern," "Ph.D. candidate," or "volunteer."

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

FIU Email \_\_\_\_\_

Role (Job Title) \_\_\_\_\_

Department \_\_\_\_\_

#### Q2.2 Identify Authorized Alternate

Display Q2.2 if the response in Q1.2 is "Authorized Alternate"

Note: Students, interns, Ph.D. candidates, and volunteers are NOT ALLOWED to participate in the LSA to protect the student's personally identifiable information per the Family Educational Rights and Privacy Act (FERPA).

Only Use FIU Employee Emails and the official title/role. EH&S will reject the submission if an FIU student email is used or if the role contains "student," "intern," "Ph.D. candidate," or "volunteer."

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

FIU Email \_\_\_\_\_

Role (Job Title) \_\_\_\_\_

Department \_\_\_\_\_

#### Q2.3 You have entered either "student," "intern," "candidate," or "volunteer" as the role/job title for the Group Lead or Authorized Alternate.

Display Q2.3 if the "Role (Job Title)" in Q2.1 and/or Q2.2 contains "student", "intern", "volunteer", or "candidate"

Students, interns, candidates, and volunteers are not authorized to complete the LSA. If you are employed by the university, contact your supervisor to determine your employee job title.

Use the back arrow to change the role.

If you do not edit the role(s), the survey will end, and EH&S will reject the submission.

If you have received this in error, contact the Program Coordinator, Victoria Villa, at [vmvilla@fiu.edu](mailto:vmvilla@fiu.edu).

- End Survey

Skip to End of Survey if the response in Q2.3 is "End Survey."

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### Q2.4 Identify the Campus or Site and the Building

**Select Campus/Site** [From drill-down list]

**Select Building** [From drill-down list]

### Q2.5 Identify Room Number

*(Only one room number per submission.)*

\_\_\_\_\_

### Q2.6 Is this space a shared space?

*(A shared space is where multiple groups share a single room or room number. Each group must submit an LSA because each group is responsible for managing various hazards, operations, personnel, and administrative controls individually.)*

- Yes, multiple groups are using the space. Specify the last name of the group leads. \_\_\_\_\_
- No, the space is not shared

### Q2.7 Select one space type.

- Research
- Academic
- Both

### Q2.8 Select one space classification that best describes the room/space.

- Animal Care Facility
- Clinical / Clinical Support Space
- Computational Research
- Hazardous Storage Area
- Human Psychological / Behavioral Studies
- Laboratory
- Laboratory Support Space
- Office / Conference Room
- Shop / Art Studio
- Stock Room

### Q2.9 Provide a concise description of the operations conducted within the space.

\_\_\_\_\_

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### Inventory Block

#### Q3.1 Select all the Special Hazards utilized, stored, produced, or found in the space:

(EH&S Resources:

Biological Safety Program Webpage <https://ehs.fiu.edu/safety-programs/biological/index.html>

Chemical Safety Program Webpage <https://ehs.fiu.edu/safety-programs/chemical/index.html>

Controlled Substance Safety Program Webpage <https://ehs.fiu.edu/safety-programs/controlled-substances/index.html>

Compressed Gas Cylinder Safety Webpage <https://ehs.fiu.edu/safety-programs/industrial/compressed-gas-cylinders/index.html>

Laser Safety Program Webpage <https://ehs.fiu.edu/safety-programs/laser/index.html> (includes Cryogenic)

Radiation Safety Program Webpage <https://ehs.fiu.edu/safety-programs/radiation/index.html>)

- Biological Materials
- Chemicals
- Controlled Substances
- Laser(s)
- Compressed Gas Cylinders (includes Cryogens)
- Nanomaterial/technology
- Radioactive Materials/Equipment (Ionizing Radiation)
- No Hazards

#### Q3.2 Select all the types of waste generated or stored in the space:

(Review the following EH&S resources:

Biological Waste <https://ehs.fiu.edu/safety-programs/biological/biomedical-waste/index.html>

Chemical Waste or Hazardous Waste <https://ehs.fiu.edu/safety-programs/environmental-compliance/index.html#3>

Radioactive Materials Webpage <https://ehs.fiu.edu/safety-programs/radiation/index.html>)

- Biological Waste
- Chemical Waste
- Radioactive Waste
- Other, Specify: \_\_\_\_\_
- No, waste is not generated or stored in the space.

#### Q3.3 Does the space have the appropriate emergency spill response kit(s) available and fully stocked?

(Spill response kits are essential containers for quickly containing and cleaning small leaks and spills. They can be purchased or assembled and must be inspected annually to ensure they are stocked with compatible receptacles, absorbents, cleaners, chemical neutralizers, and personal protective equipment. Everyone in the space must be trained on their location(s), proper clean-

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up protocols, and reporting procedures, regardless of their direct involvement with hazardous materials.)

- Yes, all spill kits are available and fully stocked
- Spill kits are available but NOT fully stocked
- Some or all spill kits are missing/not available
- N/A, spill kits are not required

### Q3.4 Is there specialized disposal containers for broken glass or sharps in the space?

(Broken Glass containers are required if there is glass in the space. Please note: contaminated glass (i.e., chemicals, radioactive materials, etc.) must be treated as solid hazardous waste. Sharps containers are required if there are sharps in the space (i.e., razor blades, needles, etc.). View EH&S's Laboratory Glassware Disposal Guidelines [https://ehs.fiu.edu/\\_assets/docs/lab-safety/lab-glassware-disposal-guidelines.pdf](https://ehs.fiu.edu/_assets/docs/lab-safety/lab-glassware-disposal-guidelines.pdf).)

- Broken Glassware Container
- Sharps Container
- N/A, there is no glass or sharps in the space

### Q3.5 Are any of the following Safety Equipment present in the space:

(For more information, check out the following :

Biological Safety Cabinet <https://ehs.fiu.edu/safety-programs/biological/biosafety-cabinets/index.html>

Guidelines for Safe Use of Laboratory Fume Hood

[https://ehs.fiu.edu/\\_assets/docs/chemical/fume-hoods-guidelines.pdf](https://ehs.fiu.edu/_assets/docs/chemical/fume-hoods-guidelines.pdf))

- Biological Safety Cabinet
- Deluge Hose/ Eye Wash / Safety Shower
- Fume Hood
- No Safety Equipment

### Q3.6 Is there a first aid kit available and stocked?

- Yes, First Aid Kit is available and fully stocked
- Yes, First Aid is available but not stocked
- No, First Aid Kit is NOT available
- First Aid Kit is NOT required

### Q3.7 Does the space use or store any of the following tools in the space:

Machine Shop Equipment / Machinery

Power Machinery

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*Woodworking Operations*

*Dust Collector*

*Hazardous Energy (electrical, mechanical, hydraulic, pneumatic, etc.)*

*Confined Space*

*Overhead Crane*

*Power Industrial Vehicles*

*(For more information, check out the Industrial Safety Webpage: <https://ehs.fiu.edu/safety-programs/industrial/index.html>)*

- Yes, one or more of these is found in the space.
- No, none of these are found in the space.

### **Q3.8 Is hot work conducted in your space?**

*(Hot work involves burning, welding, or similar operations capable of initiating sparks, fires, or explosions. Hot work may be performed on university property with proper permits and training. A hot work permit is not required for electric soldering.*

*Visit EH&S' Fire Safety Hot Work Permit webpage: <https://ehs.fiu.edu/safety-programs/fire/guidelines-permits/index.html>.*

*Note: hot work permits expire and need to be resubmitted.)*

- Hot work performed with a Hot Work Permit
- Hot work performed WITHOUT a Hot Work Permit
- No hot work is conducted in the space

### **Q3.9 Does the space have a sink with an EH&S 'Restrict Chemical Discharge' sticker displayed?**

*(Stickers must be visible and posted at each sink. Request Stickers Restricting Chemical Discharge here: <https://ehs.fiu.edu/resources/index.html#4>.)*

- Sink(s) is present with EH&S sticker
- Sink(s) is present WITHOUT EH&S sticker
- No sinks in the space

### **Q3.10 What is the current status of the space?**

*(Active = "means the space is operational (even at a reduced capacity).*

*Inactive = "means the space is vacant of occupants and not currently operational.)*

- Active
- Inactive

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### Q3.11 Current Status of space: Inactive(closed)

Display Q3.11 if the response in Q3.10 is "Inactive"

**Please explain why the space is inactive/not operational/closed:**

Skip to *End of Survey* once Q3.11 is responded



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### Administrative Controls Block

#### **Q4.1 Has a visual inspection of the space been conducted this year, with concerns or issues promptly reported to the Facilities Management Department?**

*(The visual inspection should include checking the integrity of the space, ensuring all equipment is calibrated and functioning correctly, and that anything damaged is repaired or replaced. The assessment should consist of checking the ceiling, floors, and walls to ensure they are intact and undamaged; reviewing equipment to ensure they are functioning correctly and calibrated if required; and ensuring the furniture is functioning properly.*

To request a work order, log in to the Department of Facilities Management portal here:

<https://myfacilities.fiu.edu/>

- Yes, a visual inspection was conducted
- No, a visual inspection has NOT been conducted

#### **Q4.2 Are the electrical receptacles/outlets in good condition (no cracks or chips present), and are face plates in place?**

*(The electrical receptacles or outlets must be in good condition with no visible damage to the face plate. All electrical receptacles must have a face plate installed.*

Report damaged or missing electrical receptacles by requesting a work order with Facilities Management: <https://myfacilities.fiu.edu/> or call (305)348-4600.)

- Yes
- No

#### **Q4.3 Does your lab have ground-fault circuit interrupter (GFCI) outlets installed close to a water source?**

*(GFCI is a fast-acting circuit breaker designed to shut off electric power in the event of a ground fault within as little as 1/40 of a second [OSHA, 29 CFR 1926.404]. All electrical receptacles by the sink or open water sources (i.e., aquariums) must incorporate GFCI outlets. A portable GFCI outlet can be used if the water source is not permanently installed.*

Request the installation of a GFCI outlet by requesting a work order with Facilities Management: <https://myfacilities.fiu.edu/> or call (305)348-4600.)

- Yes, GFCI is installed near a water source
- No, GFCI not installed by the water source
- N/A (GFCI not required because there are no open water sources in this space)

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### Q4.4 Are all electrical/power cords in good condition and away from the path of egress?

*(Electrical cords can be fire and tripping hazards. Ensure all electrical and power cords are in good condition, without rips, tears, or exposed wiring. Do not use any electrical/power cords that have exposed wiring or that have been spliced. Do not splice electrical/power cords. Ensure that they are not obstructing the path of egress, including (but not limited to) doors, doorways, aisles, corridors, hallways, etc. Also, ensure electrical cords are not close to metal furniture.)*

- Yes, electrical cords are in good condition and away from the path of egress
- No, electrical cords are not in good condition and/or are in the path of egress

### Q4.5 Are all extension cords and surge protectors plugged directly into the wall outlet and not daisy-chained with another?

*(Daisy-chaining refers to connecting multiple power strips, extension cords, or surge protectors in series to extend the reach from a single outlet. Daisy-chaining overloads the electrical circuit, posing a fire hazard due to potential overheating and exceeding the rated capacity of the outlets and wiring. While extension cords and surge protectors are allowed for powering devices, linking them together in series is not permitted.)*

- Yes, power cords are used safely and not daisy-chained
- No, power cords are daisy-chained

### Q4.6 Are electrical panels, circuit breaker panels, and emergency shut-offs unobstructed?

*(Electrical panels, circuit breaker panels, and emergency shut-offs must remain free of obstructions for quick access during emergencies and routine maintenance.)*

- Yes, electrical panels and emergency shutoffs are unobstructed
- No, electrical panels and emergency shutoffs are obstructed
- N/A, there are no electrical panels or emergency shutoffs in the space

### Q4.7 You did not select any special hazards, waste accumulation, spill response kits, or safety equipment. Are you sure you want to end this survey?

Display Q4.7 if the response in Q3.1 is "No Hazards" if the response in Q3.2 is "No, waste is not generated or stored in the space" if the response in Q3.3 is "N/A, Spill kits are not required," and if the response in Q3.5 is "No Safety Equipment".

*If not, utilize the back button and edit your response.*

- Yes, End the Survey

Skip to *End of Survey* if the response in Q4.7 is "Yes, End the Survey"

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### Q4.8 Is the appropriate hazard signage displayed on the materials and equipment within the space?

*(Signage should be appropriate for the type of hazards in the space. Signage is required on any equipment or container where the hazards are used or stored; signage must be consistent with the GHS requirements and cannot be abbreviated.)*

See EH&S's Chemical Hygiene Plan <https://ehs.fiu.edu/safety-programs/chemical/chemical-hygiene-plan/index.html>.

See OSHA's GHS pictograms

[https://www.osha.gov/Publications/HazComm\\_QuickCard\\_Pictogram.html](https://www.osha.gov/Publications/HazComm_QuickCard_Pictogram.html))

- Yes
- No
- N/A, no hazards in this space

### Q4.9 Is the space enrolled in the Emergency Signage Program?

*(The EH&S Emergency Signage Program is a mandatory initiative that ensures FIU is compliant with the Globally Harmonized System (GHS), National Fire Protection Association (NFPA), and Hazard Communication regulatory requirements.)*

Visit EH&S's Lab Signage web page <https://ehs.fiu.edu/safety-programs/laboratory/index.html#3>.

See OSHA's GHS pictograms

[https://www.osha.gov/Publications/HazComm\\_QuickCard\\_Pictogram.html](https://www.osha.gov/Publications/HazComm_QuickCard_Pictogram.html).)

- Yes
- No
- N/A to this space because there are no hazards

### Q4.10 Is access into the space limited or restricted to authorized personnel?

*(Per FIU Security of Special Hazards Policy, access to lab areas should be restricted to lab personnel only. Lab doors should not be propped open unless lab staff is present. Unauthorized personnel (i.e., vendors, contractors, etc.) shall not have access to the lab area unless they are accompanied by lab staff.)*

*Check the key card access records every 4-6 months to ensure unauthorized personnel are not listed. To prevent unauthorized entry by custodial personnel when the lab is closed, place the trash bins outside the lab entrance door.)*

- Yes
- No
- N/A (the space does not require limited or restricted access)

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### Q4.11 Is the space free of evidence of food and drink consumption?

*(Food and drink consumption/storage is strictly prohibited in the lab area because it presents the possibility of contamination and ingesting hazardous materials. Food/drink should not be stored in refrigerators, shelves, cabinets, freezers, or countertops where hazardous materials are present. Refrigerators and freezers should be labeled with signage prohibiting food or drink storage.)*

- Yes
- No
- N/A to this area

### Q4.12 Has initial/refresher on-the-job training been completed annually for all occupants of the space, including a review of all the hazards and operations conducted within the space?

*(It is mandatory for supervisors to provide on-the-job training annually to all individuals occupying a given space. The on-the-job training should include, at minimum, a review of:*

*All the hazards in the space*

*All operations conducted within the space*

*Emergency Procedures (Spill Response, Incident/Injury; Evacuation, and Shutdown)*

*Emergency Spill Response Kits and use of Safety Equipment*

*Proper methods for disposal of hazardous and non-hazardous materials*

*Standard Operating Procedures*

*Laboratory Etiquette and Reporting Procedures*

*Required/Regulated document location (physically and electronically)*

*Safety Data Sheets*

*EH&S Training Records*

*Emergency Procedures and Protocols.)*

- All space occupants have received on-the-job training annually
- Some space occupants have received on-the-job training annually
- Space occupants have NOT received on-the-job training annually

### Q4.13 Are all space occupants up-to-date with the required EH&S Training?

*(All space occupants are required to complete various EH&S training based on the hazards/operations in the space. Review the Laboratory Training Matrix*

*[https://ehs.fiu.edu/\\_assets/docs/training/required-training-laboratories.pdf](https://ehs.fiu.edu/_assets/docs/training/required-training-laboratories.pdf) to see which trainings are required based on the hazards found in the space.*

*The minimum Core trainings are Laboratory Hazard Awareness, Hazard Communication, and Fire Safety.*

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To access all of EH&S trainings, go to <https://develop.fiu.edu/> and log in using your FIU credentials.)

- All space occupants are up-to-date with the required EH&S Training
- Some space occupants are up-to-date with the required EH&S Training
- Space occupants are NOT up-to-date with the required EH&S Training
- EH&S Training does not apply to the space

### Q4.14 Are the required EH&S training records for all space occupants accessible either physically or electronically?

*(All the required EH&S training certificates for each individual must be kept in the space. The certificates can be in an electronic folder or physically printed out as long as everyone in the space has access to this information at all times.*

*Note: QR codes can be generated and posted instead of printing all training certificates.)*

- All the required EH&S training records are accessible
- Some of the required EH&S training records are accessible
- The required EH&S training records are NOT accessible
- EH&S Training does not apply to the space

### Q4.15 Select all the documents that are up-to-date and reflect all the hazards and operations in the space.

*(All following documents must be implemented before commencing work and adjusted before introducing a new hazard or operation/procedure.)*

- Standard Operating Procedures
- Emergency Hazardous Spill Procedures
- Emergency Incident or Injury Procedures
- Emergency Evacuation Procedures
- Shutdown Procedures
- None are up-to-date
- None are required

### Q4.16 Select all of the documents that are displayed in the space.

*(All following documents must be displayed (printed and posted) in the space.)*

- Emergency Hazardous Spill Procedures
- Emergency Incident or Injury Procedures
- Emergency Evacuation Procedures
- Shutdown Procedures
- None are displayed
- None are required

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### Q4.17 Select all the documents the supervisor has annually reviewed and provided to all space occupants (physical or electronic).

*(It is mandatory for supervisors to advise every individual in a given space of the hazards, procedures, and emergency plans. Supervisors must annually review and provide all the documents below to all space occupants to ensure awareness of potential risks, hazards, operations, and emergency protocols.)*

- Standard Operating Procedures
- Emergency Hazardous Spill Procedures
- Emergency Incident or Injury Procedures
- Emergency Evacuation Procedures
- Shutdown Procedures
- None are displayed
- None are required

### Q4.18 Is Personal Protective Equipment (PPE) available and in good condition for all space occupants?

*(All space occupants, including but not limited to employees, students, volunteers, visitors, etc., must be provided with PPE for the hazards found in the space. Before distributing/providing, check the PPE for holes, wear and tear, and damages to ensure it is in good condition, and replace it if needed.)*

- Yes
- No
- N/A (does not apply to this space)

### Q4.19 Are all occupants of the space utilizing/wearing the appropriate PPE?

*(Before entering the space, all occupants must don the appropriate PPE depending on the hazards found in the space.*

*If respirators are required, all users must enroll in the FIU Respiratory Protection Program for medical evaluation, fit testing, and training.*

*Request fit testing information via email to [ehs@fiu.edu](mailto:ehs@fiu.edu).)*

- Yes
- No
- N/A (does not apply to this space)

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### Hazards Safety Block

#### Q5.1 Are any of the following types of biological materials found in the space?

Display Q5.1 if the response in Q3.1 is “Biological Materials”

- Bio-infectious Material
- Recombinant DNA (rDNA)
- None of the above types of biological materials are in the space

#### Q5.2 Select all the bio-disposable containers found in the space:

Display Q5.2 if the response in Q3.1 is “Biological Materials” or Q3.2 is “Biological Waste”

*(There are various types of disposable containers depending on the materials/hazards in the space and whether or not they are contaminated.*

*Biohazard bins are required if there are biological materials in the space (can include broken glass, needles, scalpels, etc., in contact with biological materials)*

*Bio-sharps containers are required if there are sharps in the space.)*

- Biohazardous Waste Container
- Bio-Sharps Containers
- None

#### Q5.3 Select the schedule of controlled substance(s) found in the space.

Display Q5.3 if the response in Q3.1 is “Controlled Substances”

*(Review the United States Drug Enforcement Administration's Drug Scheduling definitions here:*

*<https://www.dea.gov/drug-information/drug-scheduling>)*

- Schedule I
- Schedule II
- Schedule III
- Schedule IV
- Schedule V
- None

#### Q5.4 Are there any of the following types of chemicals found in the space?

Display Q5.4 if the response in Q3.1 is “Chemicals”

- Carcinogen
- Peroxide Forming Material
- None of these options

#### Q5.5 Is the peroxide-forming material(s) checked for peroxides OR disposed of at least every six (6) months?

Display Q5.5 if the response in Q5.4 is “Peroxide Forming Material”

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*(The time limit for storing peroxide-forming materials varies depending on the solvent/material. FIU requires users to check the integrity of the storage containers periodically. The container shall not be older than six (6) months, or proof of inspections conducted every three (3) months must be available.*

*See EH&S's Chemical Hygiene Plan for a list of peroxidizable chemicals and guidelines for ordering, storing, and testing [https://ehs.fiu.edu/\\_assets/docs/chemical/chemical-hygiene-plan.pdf#page=56](https://ehs.fiu.edu/_assets/docs/chemical/chemical-hygiene-plan.pdf#page=56).)*

- Yes
- No

### **Q5.6 Does the space have an accurate, up-to-date inventory of all the chemicals in the space recorded in the EH&S Chemical Inventory System?**

Display Q5.6 if the response in Q3.1 is "Chemicals"

*(The EH&S Chemical Inventory System is a mandatory tracking system for all the chemicals found in the space. Ensure your chemical inventory is accurate in the EHS Chemical Inventory System.*

*To access the web-based program, visit: <https://ehsinventory.fiu.edu/> .)*

- Yes, the chemical inventory is accurate in the EHS Chemical Inventory System
- No, the chemical inventory is not accurate in the EHS Chemical Inventory System

### **Q5.7 Are all the Safety Data Sheets(SDS) for all chemicals/materials accessible to all in the space?**

Display Q5.7 if the response in Q3.1 is "Chemicals"

*(The Safety Date Sheets, formally known as Material Safety Data Sheets (MSDS), must be accessible to everyone in the space at all times.)*

- SDSs are accessible
- Some SDSs are accessible
- SDSs are NOT accessible

### **Q5.8 Are the chemical containers adequately labeled?**

Display Q5.8 if the response in Q3.1 is "Chemicals"

*(Chemical containers shall be labeled with the chemical name per the SDS; this also applies to secondary chemical containers. The chemical formula shall not substitute the chemical name except for labeling the container where a small quantity of a compound synthesized in the laboratory is stored. Chemicals should be labeled per GHS requirements.*

*View EH&S's Hazard Communication webpage: <https://ehs.fiu.edu/safety-programs/chemical/hazard-communication/index.html>.*



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Review EH&S's Chemical Hygiene Plan for OSHA's minimum labeling requirements

<https://ehs.fiu.edu/assets/docs/chemical/chemical-hygiene-plan.pdf#page=20.>)

- Yes
- No

### Q5.9 Are the chemicals stored in appropriate containers?

Display Q5.9 if the response in Q3.1 is "Chemicals"

*(Containers shall be in good condition with no sign of leakage, compatible with the chemical stored in them, labeled per GHS requirements, and have a lid.*

Review EH&S's Chemical Hygiene Plan for Chemical Compatibility Storage Guidelines

<https://ehs.fiu.edu/assets/docs/chemical/chemical-hygiene-plan.pdf#page=72.>)

- Yes
- No

### Q5.10 Are the chemicals stored according to hazard category and compatibility (not alphabetically)?

Display Q5.10 if the response in Q3.1 is "Chemicals"

*(Refer to the chemical's/material's SDS for storage requirements. EH&S recommends storing chemicals on low shelves following best laboratory practices.*

Review EH&S's Chemical Hygiene Plan for Chemical Compatibility Storage Guidelines

<https://ehs.fiu.edu/assets/docs/chemical/chemical-hygiene-plan.pdf#page=72.>)

- Yes
- No

### Q5.11 Are all gas cylinders adequately secured and have the FIU 'stage of use' tags?

Display Q5.11 if the response in Q3.1 is "Compressed Gas Cylinders (includes Cryogen)"

*(All gas cylinders must be secured with a wall mount bracket with a firm strap (i.e., polypropylene strap) or a chain. All gas cylinders must have 'stage of use' tags indicating whether the gas cylinder is full, in service, or empty.*

Request additional 'Stage of Use' tags through our Sticker/label/Tag Request found here:

<https://ehs.fiu.edu/resources/index.html#4>)

- Yes
- No

### Q5.12 Select all the laser class(es) located in the space.

Display Q5.12 if the response in Q3.1 is "Laser(s)"

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- Class 1
- Class 2
- Class 3R
- Class 3B
- Class 4
- Other (specify) \_\_\_\_\_

### Q5.13 Select all the base material(s) of the Nanomaterial(s) in the space.

Display Q5.13 if the response in Q3.1 is “Nanomaterial/technology”

(See EPA's Nanomaterials Fact Sheet <https://ehs.fiu.edu/safety-programs/nanotechnology/index.html>.)

- Carbon-based
- Metal-based
- Quantum Dots
- Dendrimers
- Composite
- Other (specify) \_\_\_\_\_

### Q5.14 Select all the Radioactive Material and/or Equipment types found, stored, used, or produced in the space.

Display Q5.14 if the response in Q3.1 is “Radioactive Materials/Equipment (Ionizing Radiation)”

*(Technically Enhanced Natural Occurring Materials (TENORM): Naturally occurring substances, such as uranium and thorium, that have been concentrated or processed for industrial use and can emit ionizing radiation.*

*Radioactive materials: Substances that spontaneously emit ionizing radiation due to the presence of unstable atomic nuclei, commonly found in nuclear reactors, medical facilities, and industrial settings.*

*Sealed sources: Radioactive materials securely sealed in containers or capsules are used in various applications, such as industrial gauges, radiography, and medical devices.*

*Check sources: Small, calibrated radioactive sources are used for quality control and calibration purposes in radiation detection and measurement instruments.*

*Devices that emit X-rays: Equipment, like X-ray machines and CT scanners, that generate X-ray radiation for medical diagnostics, scientific research, and industrial imaging purposes.*

*If you have any of the above five (5) sources of ionizing radiation, please discuss it with the Radiation Safety Officer (RSO), Dr. David Roelant, at [roelantd@fiu.edu](mailto:roelantd@fiu.edu).*

*For more information, check out EH&S's Radiation Safety Program webpage: <https://ehs.fiu.edu/safety-programs/radiation/index.html>.)*

- Technically Enhanced Natural Occurring Materials (TENORM)
- Radioactive Materials
- Sealed Sources
- Check Sources

## 2024 Laboratory Self Audit Preview

- Devices That Emit X-Rays
- Other (specify) \_\_\_\_\_

### Q5.15 Is there a designated waste storage area that is marked/labeled?

Display Q5.15 if the response in Q3.2 is not “No, waste is not generated or stored in the space”

*(Hazardous Waste is waste with properties that make it dangerous or capable of harming human health or the environment. Having a designated waste storage area clearly marked or labeled is crucial for ensuring proper organization and management of waste materials. Clear identification ensures that hazardous and non-hazardous wastes are segregated appropriately. DO NOT THROW REGULATED HAZARDS IN THE TRASH OR DOWN THE SINK.)*

- Yes, there is a designated waste storage area
- No, there is no designated waste storage area
- N/A, there is no waste produced or stored in this space

### Q5.16 Are the waste containers properly labeled?

Display Q5.16 if the response in Q3.2 is not “No, waste is not generated or stored in the space”

*(All regulated hazards deemed as waste must be appropriately labeled.)*

- Yes, waste containers are labeled
- No, waste containers are not labeled
- N/A, no waste is handled, stored, or produced in this space

### Q5.17 Is hazardous waste kept in compatible secondary containment?

Display Q5.17 if the response in Q3.2 is not “No, waste is not generated or stored in the space”

*(The secondary containment must be compatible with the material and should be able to hold 110% of the hazardous waste. No other objects or materials shall be stored in the SAA.)*

- Yes, waste is kept in secondary containment
- No, waste is not kept in secondary containment
- N/A, there is no waste handled, stored, or produced in this space

## 2024 Laboratory Self Audit Preview

### Safety Equipment Block

#### Q6.1 Is the emergency wash unit(s) free from all obstructions (available/accessible)?

Display Q6.1 if the response in Q3.5 is "Deluge Hose/ Eye Wash / Safety Shower"

*(The path to and around the emergency wash unit must not be obstructed (3 feet of clearance is observed).)*

- Yes
- No

#### Q6.2 Has the chemical fume hood been certified within the past year?

Display Q6.2 if the response in Q3.5 is "Fume Hood"

*(EH&S requires all fume hoods to be certified annually; the certification's results are recorded on the face of the fume hood.*

*Report unit(s) without a current annual certification to the Facilities Management Department.)*

- Yes
- No

#### Q6.3 Is the chemical fume hood(s) clear of excessive storage?

Display Q6.3 if the response in Q3.5 is "Fume Hood"

*(Do not permanently store any chemicals inside the fume hood. Remove all items not required for procedures in progress; keep the materials in the fume hood to a minimum, and do not allow them to block vents or airflow.)*

- Yes
- No

### End of Survey Block

#### Q7.1 You have reached the end of the Laboratory Self Audit. Select 'Submit LSA' to complete the survey or utilize the back arrow to make edits.

- Submit LSA