

Laboratory Self Audit 2017 Preview

Environmental Health & Safety's (EH&S) Laboratory Self Audit (LSA) is an online questionnaire used to spread awareness of safety and regulatory compliance throughout the FIU laboratory community.

Below is a preview of the LSA that displays the questions with an explanation underneath each. The explanation is meant to clarify the questions, provide additional information, and facilitate email communication with EH&S. The online questionnaire has undergone changes to facilitate the completion, as such, the explanations online have been removed. **Note: the email hyperlinks online are programmed to automatically populate the subject line.**

Use the preview to perform a walkthrough prior to completing the LSA.

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Introduction Section Q1 (2 questions)

Welcome to the Florida International University's Environmental Health & Safety: Laboratory Self Audit (LSA)!

Please ensure that you have the knowledge about the operations and hazards associated with the lab area(s), and have the authority to influence the implementation of corrective actions, such as the PI, lab manager, or lab staff.

The questionnaire is divided into seven (7) sections: Identification, Administrative, General, Special Hazards, Chemical, Hazardous Waste & Satellite Accumulation, and Safety Equipment.

Please be objective and honest in the LSA. The LSA is designed to help identify areas where improvement is needed. You and your staff are in the best position to know the hazards that are present in your processes/environment and implement appropriate controls.

For more information, email ehs@fiu.edu

Q1.2

Please initial below to verify that you will follow FIU's honor system and answer this questionnaire to the best of your abilities.

Q1.3

Do you need assistance in completing the LSA?

*(EH&S is available to assist with the completion of the LSA. *If you select this option, the LSA will automatically end and a notification will be sent to EH&S. * If you would like more information, email ehs@fiu.edu; subject line "LSA Assistance".)*

- I would like assistance in completing the LSA
- I will complete the LSA myself

Skip logic: If Q1.3 is "I would like assistance...", then skip to End of Survey

Identification Section: Q2 (7 questions)

Q2.2

Identify the following

- Building Initials
- Room Number
- First Name
- Last Name
- FIU Email Address

Q2.3

Identify Department

- Applied Research Center (ARC)
- Art and Art History
- Biology
- Biomedical Engineering
- Center for Children and Families
- Center for the Study of Matter at Extreme Conditions (CeSMEC)
- Chemistry
- Civil and Environmental Engineering
- College of Medicine: Cell Biology and Pharmacology
- College of Medicine: Human and Molecular Genetics
- College of Medicine: Immunology
- Dietetics and Nutrition
- Earth and Environment
- Electrical and Computer Engineering
- Engineering: Advanced Materials Engineering Research Institute (AMERI)
- Environmental and Occupational Health
- Institute of Water and Environment (InWE)
- International Forensic Research Institute
- Mechanical and Materials Engineering
- Office of Research and Economic Development
- Physics
- Psychology
- Other (specify)

Q2.4

Define your relationship to the Laboratory

- Principal Investigator
- Lab Manager
- Lab staff
- Other

Administrative Section: Q3 (5 questions)**Q3.2**

Do all entry points have the appropriate lab signage with the names & telephone numbers of the PI/Lab Manager & alternates?

(Emergency telephone numbers for the PI/Lab manager and alternate must be posted on all lab entrance doors.)

- Yes
 No

Q3.3

Is the signage appropriate for the hazards within the lab?

(Signage should be appropriate for the type of hazards present in the lab. Signage is required on the entrances to the lab areas and any equipment where the hazards are used or stored, and must be consistent with the GHS requirements. Warning signs are to be posted where special or unusual hazards exist. For more information, refer to the [FIU Chemical Hygiene Plan](#) or email ehs@fiu.edu ; subject line "LSA: Lab Signage")

- Yes
 No
 N/A (there are no hazards in the space)

Q3.4

Have all the laboratory personnel received all of the appropriate training and are the training records up to date and available?

(All lab personnel must complete the required safety training PRIOR to starting work or as job duties are added/changed. A list of required on-line safety training based on hazard is available [here](#).

Supervisors are required to provide on-the-job training for all safety hazards (procedures, equipment, etc.) PRIOR to the lab personnel starting work.)

- Yes
 No
 N/A (training is not required)

Q3.5

Is the access into the lab 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 should not have access to the lab area unless lab staff is present. Check the key card access records every 4-6 months to ensure that unauthorized personnel are not listed. To prevent unauthorized entry by custodial personnel when the lab is closed, place the trash bins outside of the lab entrance door.)

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

Q3.6

The following documentation has been reviewed by all lab occupants and is current, displayed and accessible?

(The documentation must be

- *current and updated as needed to reflect changes in procedures or inventories*
- *reviewed and accessible to all lab occupants*
- *displayed in the space appropriately*

Note: An emergency procedure training must be provided to all lab occupants prior to commencing activities.)

Note: the LSA will ask if the following documentation is

- "Applicable, current, and displayed"
- "Applicable, but not current and/or displayed"
- "N/A to space".

Emergency Hazardous Spill Procedures

Emergency Incidents and/or Injuries Procedures

Emergency Evacuations Procedures

Emergency Shutdowns Procedures

(Emergency Procedures must be posted, accessible and reviewed by lab staff & must be updated as needed or as procedures change. Lab staff should be trained on what to do, where to go, and who to notify.)

Current Chemical Inventory

(The chemical inventory for all FIU lab areas must be registered with EHS Assist. A hard copy of the inventory must be available and easily accessible. For more information and troubleshooting questions, email ehs@fiu.edu; subject line "LSA: EHS Assist".)

Safety Data Sheet(s) (SDS)

(According to the Globally Harmonized System (GHS), a hard copy or e-copy of the SDS must be available for all chemicals/materials within your laboratory. All personnel must know where the SDS are located and/or know how to find the SDS online. For more information email ehs@fiu.edu; subject line "LSA: SDS".)

Hazardous Waste Manifest (for past 3 years)

(A manifest of the waste that has been collected must be accessible and displayed in the Satellite Accumulation Area (SAA) for 3 years minimum; to satisfy this, keep copies of the EH&S Waste Pick-Up forms. For more information email ehs@fiu.edu; subject line "LSA: Hazardous Waste Program".)

Current Refrigerator Inventory

(An inventory of the items stored in the refrigerator/freezer should be posted on the unit's door. If it is hazardous chemicals, each chemical must be listed and correspond with the information provided in EHS Assist. Biological samples must be labeled as the type of sample (i.e. human blood, cell lines, etc.). Radioactive materials must be labeled for the type of radioactive material.)

Other (specify)

General Section: Q4 (11 questions)

Q4.2

Are there emergency spill response supplies available and appropriate for the type of materials handled within the lab?

(If several chemical classes are stored in the lab, a universal spill kit is appropriate. However, if specific chemicals are stored (e.g. mercury) a spill kit for the specific chemical must be available. Check the spill kits often to make sure that they are properly stocked. Ensure that all lab personnel have been trained to know what to do if there is a spill, the location of the spill kit, how to use the spill kit, and how to restock the spill kit. For more information email ehs@fiu.edu ; subject line "LSA: Emergency Spill Response Supplies".)

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

Q4.3

Are there proper and separate containers available for disposal of broken glass and sharps?

(Appropriate containers should be available for the disposal of broken glass and sharps. Containers must be properly labeled for contents. PIs/Lab managers are responsible for purchasing the appropriate broken glass containers. For the Laboratory Glassware Disposal Guidelines, click [here](#). For more information email ehs@fiu.edu ; subject line "LSA: Sharps/Broken Glass Containers")

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

Q4.4

Is the lab 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 ingestion of hazardous materials. Food/drink should not be stored in refrigerators, shelves, cabinets, freezers, or counter-tops where hazardous materials are present. Refrigerators and freezers should be labeled with signage that prohibits the storage of food or drinks.)

- Yes
 No

Q4.5

Are the noise levels in the space moderate enough to allow communication?

(According to OSHA, Noise and vibration can harm workers when they occur at high levels, or continue for a long time. The following are warning signs that may indicate your work place is too noisy:

- *You hear ringing or humming in your ears when you leave work*
- *You must shout to be heard by a coworker an arm's length away*
- *You experience temporary hearing loss when leaving work*

For more information from OSHA's Occupational Noise Exposure, click [here](#).

If you are experiencing any of the warning signs, or you would like to request an assessment of your work area, please email ehs@fiu.edu , subject line "LSA: noise levels".)

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

Q4.6

The lab does not use extension cords in the space.

(Extension cords are fire and tripping hazards and are prohibited at FIU.)

- Yes
- No

Q4.7

Are the electrical receptacles in good condition (no cracks or chips present), and face plates in place?

(The electrical receptacle must be in good condition with no visible damage done to the face plate. All electrical receptacles must have a face plate installed. If there is damaged or missing electrical receptacles, place a work order with Facilities Management by either email workmanagement@fiu.edu or contact (305)348-4600.)

- Yes
- No

Q4.8

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 1/40 of a second [OSHA, 29 CFR 1926.404]. All electrical receptacles by the sink or by 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. To have a GFCI outlet installed, contact Facilities Management to place a work order by either email workmanagement@fiu.edu or contact (305)348-4600.)

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

Q4.9

Are all cords away from doors, walkways and metal furniture?

(Electrical cords are fire and tripping hazards. Ensure that they are not obstructing the path of egress, including (but not limited to) doors, doorways, aisles, corridors, hallways etc. Also, ensure the electrical cord is not in close proximity to metal furniture.)

- Yes
 No

Q4.10

Is Personal Protective Equipment (PPE) available and in good condition for all occupants of the space?

(Employees must be provided with PPE for the hazards found in the space. Prior to use, check the PPE for holes, wear and tear, and damages to ensure it is in good condition, and replace if needed.)

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

Q4.11

Are all occupants of the space utilizing/wearing the appropriate PPE?

(At a minimum, the lab occupants must wear a lab coat (or a long sleeve shirt), long pants, closed toed shoes, and safety goggles to protect against splashes, spills, and drips; long hair should be tied back and away from the face. Gloves must be worn when handling hazardous materials or contaminated items/surfaces. For more information about the appropriate PPE for your space, email ehs@fiu.edu ; subject line "LSA: PPE". If respirators are required, all users must enroll in the FIU Respiratory Protection Program for medical evaluation, fit testing, and training. For more information email ehs@fiu.edu ; subject line "LSA: Respiratory Protection Program".)

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

Q4.12

Upon leaving a laboratory area, are gloves removed?

(Contaminated gloves should be deposited in an appropriate hazardous waste container. Gloves should be removed before handling personal items and entering public areas that are generally expected to be free of contamination (including but not limited to: phones, doorknobs, elevator buttons, water fountains, handrails, computers, keyboards, etc.). The "One Glove Rule" should be followed when one is transporting laboratory materials. For more information, click [here](#) for FIU's Protective Glove Guidelines or email ehs@fiu.edu ; subject line "LSA: Protective Glove Program".)

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

Special Hazards Section: Q5 (7 questions)

Q5.2

Does your lab store, handle, use, or produce the following? Select ALL the special hazards that currently apply:

New In-coming Hazards: Are you planning to work with additional hazards within the next year? Send an email to ehs@fiu.edu ; subject line "LSA: New In-coming Hazards".

- Radioactive material(s)/equipment
(For more information email ehs@fiu.edu; subject line "LSA Radiation Safety Program".)
- Nano material(s)
(For more information email ehs@fiu.edu; subject line "LSA Nano Material Safety Program".)
- Laser(s)
(For more information email ehs@fiu.edu; subject line "LSA Laser Safety Program".)
- Controlled Substance(s)
(For more information email ehs@fiu.edu; subject line "LSA Controlled Substance Safety Program".)
- N/A (does not apply to this space)

Q5.3

Does your lab handle, store, or use biohazardous materials?

(Biohazardous materials are substances that pose a threat to the health of humans, animals, and the environment; includes microorganisms, viruses, and toxins. For more information email ehs@fiu.edu ; subject line "LSA: Biological Safety Program")

- Yes
- No

Skip logic: If Q5.3 is "No", then skip to Q5.6

Q5.4

If your lab deals with biohazardous materials, please select all that apply:

- Bacteria
- Biological Toxins
- Fungi
- Insects
- Materials derived from animals
- Materials derived from Humans
- Parasites
- Recombinant DNA
- Select Agents or Toxins (please specify)
- Viruses
- Other (please describe)

Q5.5

Are there containers available for disposal of solid biohazardous materials?

(Biohazardous materials must be disposed of in a biohazard container in accordance with FAC 64-16E and the FIU Biomedical Waste Plan. Disposal of the container(s) is coordinated through the EH&S Bio Safety Office. To request disposal service and/or containers, please email ehs@fiu.edu subject line "LSA: Request for Biosafety containers/disposal".)

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

Q5.6

Does your lab handle, store, or use cryogenics and/or dry ice (select all that apply)?

(Cryogenics are substances used to produce very low temperatures (i.e. liquid nitrogen). Dry ice is the frozen form of carbon dioxide used to maintain low temperatures. Cryogenics and dry ice can be hazardous to workers if not handled and stored properly. For FIU's Safety Quick Guide, click [here](#). For more information email ehs@fiu.edu ; subject line "LSA: Cryogenics and Dry Ice")

- Cryogen
- Dry Ice
- N/A (does not apply to this space)

Q5.7

Does your lab handle, store, or use compressed gas cylinders?

(A compressed gas cylinder is a vessel that stores gases under pressure. For more information email ehs@fiu.edu ; subject line "LSA: Gas Cylinder Program" or visit the EH&S Compressed Gas Cylinder web page [here](#).)

- Yes
- No

Skip logic: If Q5.7 is "No", then skip to End of Block

Q5.8

Are all gas cylinders properly secured and have the FIU 'stage of use' tags?

(All gas cylinders must be secured with a wall mount bracket that includes a firm strap (i.e. polypropylene strap) or a chain. All gas cylinders must have the 'stage of use' tags that indicates if the gas cylinder is full, in service, or empty. To request additional FIU 'stage of use' tags, email ehs@fiu.edu ; subject line "LSA: GC stage of use tags".)

- Yes
- No

Chemical Section: Q6 (10 questions)

Q6.2

Does your lab store, handle, or use chemicals?

- Yes
 No

Skip logic: If Q6.2 is "No", then skip to End of Block

Q6.3

Select ALL that currently apply:.

New In-coming Hazards: Are you planning to work with additional hazards within the next year? Send an email to ehs@fiu.edu ; subject line "LSA: New In-coming Hazards".

- Acids
 Asphyxiate
 Carcinogen
 Explosives
 Flammables
 Irritants
 Oxidizers
 P-listed materials
 Peroxide Forming Materials
 Sensitizers
 Toxic
 Water Reactive Materials
 Other (please specify)

Display Q6.4 if "carcinogen" is selected in Q6.3

Q6.4

Are the chemical carcinogens clearly labeled?

(Chemical carcinogens should be clearly labeled (i.e. "Warning- Carcinogen may cause cancer") AND have the appropriate pictogram in accordance with GHS requirements [for carcinogens use the Health Hazard pictogram]. For OSHA's GHS pictograms, click [here](#).)

- Yes
 No

Display Q6.5 if "peroxide forming materials" is selected in Q6.3

Q6.5

Are the peroxide forming materials dated to show when it was received and opened?

(Peroxide forming materials are organic materials that are capable of reacting with atmospheric oxygen to form potentially explosive peroxide(s). The date of receipt must be clearly written on the container and/or logged in a sheet.)

- Yes
 No

Display Q6.6 if “peroxide forming materials” is selected in Q6.3

Q6.6

Are the peroxide forming materials checked for peroxides OR disposed of at least every 6 months?

(The container shall not be older than 6 months or documentation of inspections conducted every 6 months must be available.)

Yes

No

Display Q6.7 if “flammable” is selected in Q6.3

Q6.7

Are the flammable liquids stored in a flammable storage cabinet?

(For more information or if you would like to request an assessment of your area, email ehs@fiu.edu; subject line "LSA Flammable Storage".)

Yes

No, if not, then where are they stored

Q6.8

Are the chemical containers properly labeled?

(Chemical containers should be labeled with the chemical name as per the SDS; this also applies to secondary chemical containers. The chemical formula should not be used in substitution of the chemical name except for labeling the container in which small quantity of a compound synthesized in the laboratory is stored. Chemicals should be labeled in accordance with GHS requirements. For a quick guide of the GHS pictograms, click [here](#).)

Yes

No

Q6.9

Are the chemicals being stored in appropriate containers?

(Containers should be in good condition with no sign of leakage, and must be compatible with the chemical stored in it, labeled in accordance with GHS requirements, and have a lid. For information on OSHA's Quick Card: Hazard Communication Standard Pictogram, click [here](#).)

Yes

No

Q6.10

Are the chemicals stored according to hazard category and compatibility (not alphabetically)?

(For storage requirements refer to the chemical's/material's SDS. EH&S recommends storing chemicals in low shelves in accordance with best laboratory practices. For more information email ehs@fiu.edu ; subject line "LSA: Chemical Compatibility".)

Yes

No

Q6.11

Are there stickers restricting chemical discharge displayed by sinks?

(Stickers must be visible and posted at each sink. If you are missing (a) sticker(s) and/or want more information email ehs@fiu.edu ; subject line "LSA: Chemical Discharge Stickers".)

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

Hazardous Waste & Satellite Accumulation Area (SAA) Section: Q7 (10 questions)

Q7.2

Does your lab store, handle, or produce hazardous waste?

(For more information email ehs@fiu.edu ; subject line "LSA: Hazardous Waste".)

- Yes
 No

Skip logic: If Q7.2 is "No", then skip to End of Block

Q7.3

Is there less than 55 gallons of waste stored in the SAA?

(SAA are not permitted to store more than 55 gallons of hazardous waste.)

- Yes
 No

Q7.4

Is the SAA located near the point of generation and away from sinks and drains?

(Waste must remain at the point of origin, and an appropriate SAA must be created and indicated (with yellow tape) in that location. Hazardous waste must NOT be transferred from one lab to another. For more information email ehs@fiu.edu ; subject line "LSA: SAA point of generation".)

- Yes
 No

Q7.5

Is the SAA set up in accordance with EH&S requirements?

(See the EH&S' [Laboratory Hazardous Waste Satellite Accumulation Area Requirements](#) for the requirements of setting up and maintaining an SAA. The signage that must be posted in the SAA are: [Laboratory Hazardous Waste Satellite Accumulation Area Requirements](#), [Satellite Accumulation Signage](#), [Satellite Hazardous Waste Accumulation Checklist/Form](#), and [Zero Quantity Barcode and Non-Barcode Data Entry Form](#). For more information, visit EH&S's Hazardous Waste webpage [here](#).)

- Yes
 No

Q7.6

Are the containers in the SAA in good condition?

(Containers in the SAA must not have any chemical residue on them AND must not appear to have any indentations on them (indentations could cause cracks and container leakage).)

- Yes
 No

Q7.7

Are all the containers in the SAA closed when they are not being used?

(All waste containers must be closed when unattended to prevent spills or exposures.)

- Yes
 No

Q7.8

Is hazardous waste kept in a secondary containment?

(The secondary containment must be compatible with the material and should be able to hold 110% of the hazardous waste.)

- Yes
 No

Q7.9

Are incompatible waste segregated by separate secondary containers?

(Only keep compatible waste in the same secondary container within the SAA to prevent potential chemical reactions. If waste is incompatible, use a separate secondary container for each incompatible waste. For more information email ehs@fiu.edu ; subject line "LSA: Hazardous Waste Compatibility".)

- Yes
 No

Q7.10

Are hazardous waste containers properly labeled?

(Hazardous waste containers must display a FIU Hazardous Waste label. To request labels email ehs@fiu.edu ; subject line "LSA: Hazardous Waste Labels".

Filling out the label: The hazardous waste label must contain the complete name of the chemical, not the chemical formula, in the chemical description. The "Accumulation Start Date" will be filled when the hazardous waste is being transported for disposal.

Note: Request a [hazardous waste pickup](#) when one (1) 55-gallon drum is reached OR one (1) quart of P-listed (acute) waste is reached.)

- Yes
 No

Q7.11

Are waste bottles filled to a safe level?

(Waste bottles, drums and containers must not be filled to the top. Overfilled containers will cause spills.)

- Yes
 No

Safety Equipment Section: Q8 (12 questions)

Q8.2

Does your lab have emergency eyewash and/or shower units?

(Emergency eyewash and shower units are designed to deliver water to rinse contaminants from a user's eyes, face, or body in the event of an emergency. EH&S strongly recommends that the user flushes the unit(s) weekly in accordance with laboratory best practices. Note: Depending on the unit, testing requires special equipment in order to contain the spread of water. For more information email ehs@fiu.edu ; subject line "LSA: Emergency Wash Program")

- Yes
 No

Skip logic: If Q8.2 is "No", then skip to Q8.5

Q8.3

Has the emergency eyewash and/or shower unit(s) been certified within the last year?

(Emergency eyewash and/or shower unit(s) are required to be certified annually. If you have a squeeze bottle, ensure the expiration date is valid. If you have a unit that requires certification or would like more information email ehs@fiu.edu ; subject line "LSA: Emergency Wash Program".)

- Yes
 No

Q8.4

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

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

- Yes
 No

Q8.5

Does your lab have a chemical fume hood (FH)?

(A chemical fume hood is a local exhaust ventilation devices designed to reduce airborne concentrations of hazardous chemicals. For more information email ehs@fiu.edu ; subject line "LSA: Fume Hood Program")

- Yes
 No

Skip logic: If Q8.5 is "No", then skip to Q8.8

Q8.6

Has the FH been certified within the past year?

(Chemical fume hoods are required to be certified annually. If you have a fume hood that requires certification, or if you would like more information email ehs@fiu.edu ; subject line "LSA: Fume Hood Program".)

- Yes
 No

Q8.7

Is the hood(s) clear of excessive storage?

(OSHA advises: Do not permanently store any chemicals inside the fume hood. Conduct periodic inventories with unneeded items being discarded or returned to the storeroom/stockroom. Remove all items that are 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

Q8.8

Does your lab have a biosafety cabinet?

(Biological Safety Cabinets (BSC) should be used as primary barriers when working with biohazardous or infectious agents. Please refer to the [FIU Biosafety Cabinet Manual](#) for more information.)

- Yes
 No

Skip logic: If Q8.8 is "No", then skip to Q8.11

Q8.9

Has the BSC been certified within the past year?

(Biosafety cabinets are required to be certified annually. If you have a biosafety cabinet that requires certification, or if you would like more information email ehs@fiu.edu ; subject line "LSA: BSC Program".)

- Yes
 No

Q8.10

Are decontamination procedures available for the BSC and any items/materials/equipment within?

(Decontamination procedures must be provided for all work surfaces, equipment, and/or any other potentially contaminated material(s). For more information email ehs@fiu.edu ; subject line "LSA: BSC Decontamination Procedures".)

- Yes
 No

Q8.11

Does your lab have any sterilization equipment (i.e. autoclave)?

(Autoclaves are used for the sterilization of materials/supplies for laboratory use and contaminated items for disposal. For more information about the use and safety of autoclaves/sterilizers, click [here](#).)

- Yes
 No

Q8.12

Does the lab have equipment/machines that requires engineering controls to prevent injury during usage, maintenance, change-overs, or other operations?

(Equipment/machines that require engineering controls to protect the user/occupants from injury can have points of operation including but not limited to in going nip points, rotating parts, flying chips and/or sparks. Some examples are guillotine cutters, shears, power presses, milling machines, power saws, etc.)

- Yes
- No
- I am not sure; I would like to request an assessment

Display Q8.13 if "yes" is selected in Q8.12

Q8.13

Does the equipment/machine have machine guards, lockout/tagout, or present additional safety controls?

(According to OSHA 1910.212(a)(3)(ii) "The point of operation of machines whose operation exposes an employee to injury, shall be guarded. The guarding device... shall be so designed and constructed as to prevent the operator from having any part of his/her body in the danger zone during the operating cycle." Any machines/equipment that have the potential to release hazardous energy whenever servicing or maintenance is done, requires a lockout/tagout control to be present. For more information email ehs@fiu.edu ; subject line "LSA: Machine Guarding, LOTO, & Safety Controls".)

- Machine guard controls in place
- Hazardous energy controls in place (lockout/tagout)
- Safety controls in place
- None in place
- I am not sure; I would like to request an assessment