

Lab Safety Quiz Questions and Answers PDF

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What is the first step in using a fire extinguisher?

- Aim at the base of the fire
- Squeeze the handle
- Pull the pin ✓
- Sweep side to side

The first step in using a fire extinguisher is to pull the pin at the top of the extinguisher to unlock it. This action allows you to operate the extinguisher effectively.

What is the primary purpose of a lab safety quiz?

- To assess scientific knowledge
- To evaluate safety protocol understanding ✓
- To test lab equipment skills
- To determine chemical handling skills

The primary purpose of a lab safety quiz is to assess and reinforce the understanding of safety protocols and procedures among participants, ensuring a safe working environment in the laboratory.

Which of the following are considered personal protective equipment (PPE)? (Select all that apply)

- Gloves ✓
- Safety goggles ✓
- Lab coat ✓
- Sandals

Personal protective equipment (PPE) includes items such as gloves, masks, goggles, and gowns that are designed to protect the wearer from injury or infection. It is essential to select the appropriate PPE based on the specific hazards present in the environment.

Which of the following are fire safety practices in the lab? (Select all that apply)

- Knowing the location of fire extinguishers ✓**
- Blocking fire exits
- Storing flammable materials properly ✓**
- Ignoring fire alarms

Fire safety practices in the lab include proper storage of flammable materials, regular inspection of fire extinguishers, and ensuring clear access to emergency exits.

What are the components of a proper chemical label? (Select all that apply)

- Chemical name ✓**
- Hazard symbols ✓**
- Expiration date
- Manufacturer's contact information ✓**

A proper chemical label should include the chemical name, hazard symbols, signal words, precautionary statements, and the manufacturer's information.

Where should you dispose of broken glassware in the lab?

- Regular trash bin
- Chemical waste container
- Designated glass disposal box ✓**
- Sink

Broken glassware should be disposed of in designated glass disposal containers to prevent injury and ensure safe handling. These containers are specifically designed to safely contain sharp objects and minimize the risk of accidents in the lab.

What should you do in the event of a chemical spill? (Select all that apply)

- Evacuate the area if necessary ✓**
- Report the spill to a supervisor ✓**
- Clean it up immediately without any protection
- Use appropriate spill kits ✓**

In the event of a chemical spill, it is crucial to ensure personal safety first, evacuate the area if necessary, and report the spill to the appropriate authorities. Additionally, follow any specific emergency procedures outlined for the chemical involved.

Which organization sets regulations for workplace safety, including labs?

- FDA
- EPA
- OSHA ✓
- CDC

The Occupational Safety and Health Administration (OSHA) is the primary organization responsible for setting and enforcing regulations for workplace safety, including in laboratory environments.

Which piece of personal protective equipment is essential for eye protection in the lab?

- Gloves
- Goggles ✓
- Lab coat
- Mask

Eye protection in the lab is crucial to prevent injuries from chemical splashes, flying debris, or harmful radiation. Safety goggles or face shields are essential personal protective equipment for safeguarding the eyes during laboratory work.

What should you consult to understand the hazards of a chemical?

- Equipment manual
- Lab notebook
- Material Safety Data Sheet (MSDS) ✓
- Lab safety poster

To understand the hazards of a chemical, you should consult the Safety Data Sheet (SDS) associated with that chemical. The SDS provides detailed information on the chemical's properties, hazards, handling, and emergency measures.

What is the purpose of an eyewash station?

- To clean laboratory equipment
- To rinse chemicals from the eyes ✓
- To wash hands
- To store safety goggles

An eyewash station is designed to provide immediate assistance and care for individuals who have experienced eye injuries or exposure to hazardous substances. It typically includes equipment such as eyewashes and safety showers to facilitate quick decontamination.

What should be included in a lab's emergency plan? (Select all that apply)

- Evacuation routes ✓
- Contact information for emergency services ✓
- Personal contact numbers
- Location of safety equipment ✓

A lab's emergency plan should include procedures for evacuation, communication protocols, first aid resources, and specific responses to various emergencies such as chemical spills or fires.

Which of the following is NOT a recommended lab practice?

- Eating in the lab ✓
- Wearing a lab coat
- Labelizing chemicals
- Using a fume hood

Recommended lab practices include maintaining cleanliness, proper labeling, and following safety protocols. Any practice that compromises safety or organization, such as neglectful waste disposal, is not recommended.

Which actions help maintain a safe lab environment? (Select all that apply)

- Keeping workspaces clean ✓
- Wearing PPE ✓
- Leaving spills unattended
- Properly storing chemicals ✓

Maintaining a safe lab environment involves following proper safety protocols, using personal protective equipment, and ensuring that all equipment is in good working condition. Regular training and awareness of hazards also contribute to a safer laboratory setting.