**Just highlight otherwise mark your answers**

**Question 11 pts**

Which of the following incidents should be reported to the Environmental Health and Safety Department?  Check all that apply.

An employee was exposed to a significant quantity of hazardous chemical.



A significant quantity of hazardous chemicals accidentally went down a sink drain.



A beaker of sodium hydroxide accidentally spilled onto the floor.



A student spilled acid on his/her hand.  She was not wearing gloves but there was no visible burn.

**Question 21 pts**

When must a researcher label a chemical waste container (use a UCCS Chemical Waste label)?



When the chemical waste container is at least 5% full.



When the chemical waste container is full (allow 5% headspace for expansion).



As soon as the first drop of chemical waste has been added to the container.



Before the Environmental Health and Safety Department picks up the waste container from the laboratory.

**Question 31 pts**

If you discover a chemical waste container that has a minor leak, what should you do?



Immediately transfer the chemical waste to another empty chemical reagent container in good condition.



Place the leaking chemical waste into a secondary container so that the chemical waste will be properly collected until it is removed from the laboratory.



Immediately notify the Environmental Health and Safety Department so that an environmental report may be filed with the regulatory agency.



Patch the leaking chemical waste container with the spill supplies provided by the Environmental Health and Safety Department.

**Question 41 pts**

How often are researchers required to inspect chemical waste containers for leaks and other problems?

Group of answer choices



Once per day.



Once per week.



Once per month.



Once per year.

**Question 51 pts**

Which of these empty chemical reagent containers would be acceptable for collecting chemical waste?

Group of answer choices



Glass container with a minor crack in it.



Metal drum with a large dent.



Metal drum which is rusty only on the outside.



A plastic polyethylene container.

**Question 61 pts**

You should never clean up a chemical spill yourself if:  Check all that apply.

Group of answer choices



The quantity of spilled chemical is less than one quart.



The spilled chemical has a strong irritating odor and is making your eyes burn.



This spilled chemical is classified as a combustible liquid and its flashpoint is over 100 degrees Fahrenheit.



You don’t know the chemical’s properties (toxicity, physical and chemical hazards).

**Question 71 pts**

What is the order of hierarchy for determining proper personal protective equipment in a research lab?

Group of answer choices



Teaching lab PPE, Task specific PPE, Research Lab PPE



Task Specific PPE, Research Lab PPE



Research lab PPE, Teaching Lab PPE, Task Specific PPE



Research Lab PPE

**Question 81 pts**

Who is responsible for meeting with the researcher and completing their on-the-job hazardous chemical waste training form?

Group of answer choices



The Environmental Health and Safety Department.



The researcher's Principal Investigator or immediate supervisor.



The researcher's Departmental Chair or Dean.



The UCCS risk manager.

**Question 91 pts**

What is the best definition of a satellite accumulation area?

Group of answer choices



Any area where chemical wastes are initially generated or chemical wastes are added to containers directly in the work area and under the control of the generator(s).



A chemical fume hood where chemical wastes are generated and poured.



A locked flammable-rated storage cabinet where chemical reagents are properly stored.



Any area where unused chemical reagents are stored or where chemical reagents are handled.

**Question 101 pts**

The proper Response Procedure for responding to an emergency chemical spill consists of these four steps: Warn others, Lock or control the spill site, Report the spill by calling 911, and \_\_\_\_\_\_\_\_\_.

Group of answer choices



Pull the fire alarm.



Wait for Environmental Health and Safety to show up.



Contact janitorial services for cleanup.



Clean the site yourself.

**Question 111 pts**

Hazardous chemical waste containers must be kept closed:

Group of answer choices



At all times except when adding or removing waste.



When visitors are present in the laboratory.



At the end of the work day when employees are no longer present in the laboratory.



When the researcher’s experiment or laboratory procedure has been completed.

**Question 121 pts**

Which of these statements is not true?

Group of answer choices



Wastes should be collected in a container which is compatible with the waste.



Wastes must be closed at all times except when placing waste into the container



You should not collect more than 10 gallons of a characteristic waste.



Your chemical waste container should have a date on it while it is in satellite accumulation.

**Question 131 pts**

Which pair of chemical waste containers is chemically compatible (safe to store together)?

Group of answer choices



Flammable liquids and corrosives



Acids and caustics



Cyanides and acids



Toxics and combustibles

**Question 141 pts**

Which of these chemicals below must be managed according to the hazardous chemical waste rules (waste labels, closed containers, weekly inspections, security, etc.)?

Group of answer choices



A hydrochloric acid cleaning bath which is currently being used to clean glassware.



Spent hydrochloric acid which was collected when the acid bath solution was changed.



Unused hydrochloric acid stored in its original reagent container.



All of the above

**Question 151 pts**

Which of these lids would be unacceptable to close a hazardous chemical waste container?

Group of answer choices



Cork.



Rubber stopper.



Parafilm.



All of the above.

**Question 161 pts**

What are three types of hazardous wastes?

Group of answer choices



Cytotoxic, blood borne, infectious



Characteristic, listed, universal



Characteristic, infectious, radioactive



Animal carcass, listed, p-coded waste

**Question 171 pts**

Which of the following is acceptable practice when working in the lab? Check all that apply.

Group of answer choices



Wearing open-toed shoes or sandals.



Eating and drinking in the lab areas.



Wearing gloves to touch door handles, elevator buttons, etc.



Wearing safety glasses and a lab coat while conducting experiments.

**Question 181 pts**

Besides the chemical contents, what should be on a hazardous waste label?

Group of answer choices



hazardous symbols



generator's name



date that you started collecting

**Question 191 pts**

Which of the following responsibilities must new lab staff complete as part of on-the-job training? Check all that apply.

Group of answer choices



Identify and travel at least 2 general evacuation routes out of their work areas, excluding elevators.



Review the fire response and evacuation policy/procedure for the university.



Learn location of chemical waste storage, weekly inspection logs, and associated regulations.



Read and sign the Lab Specific Safety Plan for their lab

**Question 201 pts**

When should you first review a chemical's Safety Data Sheet (SDS)?

Group of answer choices



When you can't sleep at night



After you accidentally spill the chemical



Before working with the chemical



Only if you have the time to read it

**Question 211 pts**

What are the appropriate steps to follow in the event of an incidental spill?

Group of answer choices



Warn others, wear PPE, wipe up the spill, wrap up debris for disposal through EHS.



Warn others and evacuate area, secure the area, report the spill from a safe location, wait for emergency responders.



Quickly cover the spill with available absorbent materials, report the spill, remain in the area and wait for emergency responders.



Pour water on the spill to reduce concentration, report the spill, and wait for emergency responders before leaving the area

**Question 221 pts**

Which of the following factors indicates that an incidental spill has become an emergency response spill? Check all that apply.

Group of answer choices



Proper spill cleanup materials are not available.



Adequate personal protective equipment (gloves, goggles, lab coat) is available.



Do not know how to safely clean up the spill.



Clean up of more than a gallon of a toxic or volatile liquid.

**Question 231 pts**

Eating and drinking in the laboratory

Group of answer choices



Is not permitted



Is permitted if bench has been sanitized



Is permitted at the desks in the lab area before the experiment begins



Is permitted with permission from your Principal Investigator

**Question 241 pts**

Blythe is working with a chemical that produces potentially harmful vapors.  What is the most appropriate engineering control Blythe should employ to protect herself?

Group of answer choices



Standard lab ventilation is sufficient (negative pressure, 100% exhaust and the purge button)



Apply baking soda to neutralize the acid



A fume hood



A Laminar Flow Hood (LFH)

**Question 251 pts**

What steps should you take if you accidentally splash an acid in your eye? Check all that apply.

Group of answer choices



Flush eyes with water from the eyewash station for 15-20 minutes



Apply baking soda to neutralize the acid



Report the incident to your supervisor, even if it’s a minor incident



Seek follow-up medical care if symptoms persist