Culminating Performance Task

**Laboratory Safety and Clinical Practice**

In this project, you will work in cooperative groups to design an educational resource and informative presentation to share with your classmates regarding laboratory safety and clinical practices.

Objectives:

* Understand the basic principles of laboratory safety and clinical practices for a diagnostic healthcare setting and the healthcare provider.
* Understand the proper implementation of laboratory safety protocol regarding regulatory agencies (OSHA and CLSI)
* Discuss possible ways in which pathogens can be contracted by humans
* Differentiate between asepsis, disinfection and sterilization.
* When and how to don and remove articles of PPE.
* Understand Universal Precautions
* Be able to implement metric units and conversions.

In this project utilize resources that have been presented and used in the classroom; such as PowerPoints, internet links, classroom textbooks; additional resources to consider journals, video or television programming that accurately and scientifically address your topic.

In your group:

1. Discuss the topic assigned; document the facts that you have learned during classroom study of this unit regarding your topic.
2. Select a group leader to keep the group on task
3. Brainstorm informative aspects of your assigned topic and document ideas. Keep your brainstormed list as this is to be submitted as part of your project.
4. From the brainstormed list decide as a group which areas of information (tasks) will be included in your presentation and educational student support piece. Be specific and list the necessary tasks that the group feels will represent the overall culminating performance task project.
5. Discuss, as a group, the format and mode of delivery of the finalized project.
6. Group members, in a fair manner with the guidance of the leader, decide who will be responsible for each of the different tasks required to complete the project. Assign task and document who is responsible for what.
7. Projects need to be original, creative and include the following:
   1. The **project is named** so that your audience has no question what your project is about.
   2. **Brainstorm List** of potential subjects to cover within your assigned topic
   3. Clearly **state the objectives and purpose** of the project
   4. Your project is **scientifically accurate**
   5. A list of group names and the tasks responsibilities of each member.
   6. Your project is attractive and provides for your audience to be engaged.
   7. **Modes of delivering the project must be approved by your teacher** before you begin creating it. Ideas to consider: video, children’s book, rap, animation, skit. If you have another idea you must get approval first.
   8. **Design and create your project.**
   9. C**reate a student support resource** regarding the subject matter of your project. The student resource(s) is to be a hard copy that classmates can secure in their notebook and use as a review/support tool of the content you present; your teacher needs a copy a well.
   10. Project will be presented to the entire class and each group member has to have a part in the delivery.

**Project topics**

1. Asepsis, disinfection and sterilization (equipment, lab surfaces, lab glassware and healthcare provider;

must include how-to’s of operating an autoclave; preparation of a 10% bleach solution for disinfection; differences between asepsis, disinfection and sterilization).

1. PPE (the correct step-by-step process of donning and removing PPE; when is it appropriate to wear which particular articles of PPE)
2. Role of OSHA and CLSI in the diagnostic laboratory for physical, chemical and biological hazards
3. Use of MSDA and the necessity and process of labeling of chemicals in the laboratory
4. Biohazard spills and splashes: Care and how to dispose of them properly
5. Proper protocol for handwashing for healthcare providers
6. Application of metric unit conversions within the clinical laboratory setting utilizing a variety of lab equipment (ex. pipettes, evacuation tube, sample tubes, graduated cylinders, metric ruler, etc.)
7. Pathogens (exogenous, endogenous, nosocomial and opportunistic); appropriate safety procedures necessary to employ in the clinical laboratory setting

8. Distinguish between Standard Precautions / Universal Precautions and their use in the laboratory

**Rubric for Safety and Clinical Laboratory Practices**

Your Project must include:

1. Title
2. Brainstorm List
3. Purpose and Objectives
4. Individual group members task assignments
5. Be scientifically accurate
6. A creative mode of delivery that is engaging to your audience (no PowerPoints)
7. Student educational support piece (35 hard copies)

**Group Members:**

Leader: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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