### Module Title/Topic:
Safety, Health, & Environment - Healthcare Solutions & Equipment Safety

### Overview/Annotation:
In this multipart safety lesson you will learn safety techniques to apply in the classroom & healthcare facility related to solutions & equipment.

### Essential Question(s):
- What would you do if you splashed a cleaner in your eyes in our classroom?
- What is the purpose of an MSDS?
- What are safety precautions of various pieces of equipment in a healthcare facility or the classroom?

### Learning Objective(s):
You will:
1. Demonstrate safe work practices in healthcare, including adherence to OSHA standards, observance of emergency procedures & protocol, and knowledge of body mechanics as related to the field of ergonomics.

### Materials, Equipment, and Technology Resources:
Paper, Pen, Computer with Internet access, notebook, printer, Health Science lab equipment and solutions

### Procedures/Activities:
You will work independently and in groups on the activities listed below.

1. Watch the following video [https://www.youtube.com/watch?v=ZPoFtEBbjWI](https://www.youtube.com/watch?v=ZPoFtEBbjWI) on “How to Read an MSDS sheet”.

2. Review the Material Safety Data Sheet for a general purpose cleaner that is used commonly in a healthcare setting at the following link: [http://msds.cexp.com/msds/SCJ4687.pdf](http://msds.cexp.com/msds/SCJ4687.pdf). Answer the questions on Worksheet #1 Examining an MSDS.

3. Arrange yourself into a group of three and locate a solution within the classroom. Search the Internet for an MSDS sheet on the product. This website may be especially helpful: [http://msds.cexp.com/productCatalogWebApp/MSDSDisplay.do](http://msds.cexp.com/productCatalogWebApp/MSDSDisplay.do). Print the MSDS for review for a class discussion.

4. Within the same group of three students, review the equipment located in the Health Science classroom. Create a list of the equipment and include the proper and improper uses of each piece of equipment. (The instructor may prefer to provide the classroom equipment list instead of having students create a list). Design a PowerPoint and address the classroom equipment safety precautions and include pictures of the equipment. Use the Internet and/or Diversified Health Occupations textbook to research the pieces of equipment.

5. Present the PowerPoint on equipment safety precautions, developed in activity #4, to the class.

6. Instructor will provide additional guidance on preparing for equipment safety check off and proper demonstration of equipment. The equipment safety check off sheet will also be provided by the instructor.

7. Visit a healthcare facility and ask to see their MSDS manual for the products within the facility. Submit a signed document from the facility that you were a visitor there and completed this task.

### Assessment Strategies:
1. Use Handout # 1 grading rubric for Healthcare Solutions & Equipment Safety.
2. Completion of the equipment safety check off, as provided by Health Science instructor.
Worksheet #1
Safety, Health, & Environment PBL

Examining an MSDS

**General Purpose Cleaner:**

1. What is the product’s name?

2. What is its appearance?

3. What is its use?

4. What Personal Protective Equipment (PPE) is needed for use with the product?

5. What is the manufacturing company?

6. If product is splashed into eye, what is the proper first aid?

7. What are the acute health effects of eye splash?

8. This product is harmful or fatal if______________________________.

9. What would occur with ingestion of the product (side effect)?

10. What is the product’s odor?

11. What is the number of the section regarding: handling/storage?

12. List 3 of the 4 ingredients found in the product.

**HANDOUT #1**
Safety, Health, & Environment PBL-Healthcare Solutions & Equipment Safety

**Grading Rubric**

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<td>Activity #3 Classroom Solution MSDS sheet</td>
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<td>Activity #5 Group PowerPoint presentation</td>
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<td>Activity #6 Equipment Safety Check off (provided by Instructor)</td>
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<td>Activity #7 Healthcare Facility Visit</td>
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<td><strong>TOTAL POINTS</strong></td>
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Additional Comments: