### Task: Safety in Manufacturing Technological Systems, 8<sup>th</sup> Grade

A. The students will participate in a hands-on Safety Presentation on Personal Protection Equipment (PPE)

B. Take a Safety Examination and pass with 100% accuracy.

C. Then the students will summarize OSHA's Bloodborne Pathogens Fact Sheet and state at least 5 facts from the reading.

# **Common Core State Standards**

CTE Standard 2.0

Safely use tools, materials, equipment and other technology resources.

### Learning Expectations

2.1 Pass with 100% accuracy a written examination relating specifically to safety issues.

2.3 Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.

*Literacy in Science and Technical Subjects 6-12 1. Cite Specific textual evidence to support analysis of science and technical texts.* 

### **Essential Understandings**

The students will understand:

- a. What PPE means and the different equipment used for protection
- b. Safety Glasses
  - Meet the ANSI Z87.1 protection requirement
    - Polycarbonate lenses
    - o Clear lenses
- c. Dust Mask
  - Protection from dust and aerosol solids
  - Nose bridge
  - Dual strap
- d. Ear Plugs
  - Most industrial worksites contain constant loud noises
  - Form fitting and corded plugs are preferred
- e. Steel-toe shoes/boots

- Required at most industrial work sites.
- Protection for the toes and the top front of the foot

The students will read OSHA's Bloodborne Pathogens Fact sheet and then write a summary of the potential risks of coming in contact with blood and the methods of the prevention of the possible spreading of blood borne diseases. They will include 5 facts from the reading.

### Possible Solutions/Solution Paths

Active participation and attentiveness are key in achieving the 100% on the Safety Test.

# Additional Teacher Information

*I will have examples of proper safety glasses, proper dust mask, proper earplugs, and proper shoes/boots. Students will be able to inspect these items as visual references.* 

Link to OSHA's Bloodborne Pathogens Fact Sheet: https://www.osha.gov/OshDoc/data\_BloodborneFacts/bbfact01.pdf

Sample T/F Exam Questions:

- PPE stands for "Personal Protection Equipment". T
- If you work station requires safety glasses, they should have a rating of ANSI Z87.1 - T
- Safety Glasses DO NOT have to be equipped with clear lenses. F