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**Introduction to Hazardous Materials**

**Short Answers and Scenarios Activity**

**Directions (Part 1):** Answer the following short-answer questions and conduct research asneeded.

1. Explain the following about protective equipment commonly used in hazmat incidents (12 pts.):
   1. Why is it needed?
   2. What types are available?
   3. What are the selection criteria?
   4. What are its limitations?
2. Name some of the hazards and limitations of using personal protective equipment (PPE) during hazmat incidents. (8 pts.)
3. What are some ways you can gauge the seriousness of a hazmat response? (10 pts.)
4. Describe the general aspects of the following in your own words (15 pts.):
   1. Control
   2. Containment
   3. Confinement
5. Explain some of the various decontamination procedures for victims, personnel, and equipment (10 pts.).

**Directions (Part 2):** Imagine that you are an awareness-level responder in the followingscenarios. Write a detailed description of how you would respond to each (15 pts. each).

*Scenario 1:* You arrive on scene to an overturned 18-wheeler leaking an unknownsubstance. You see that the placard is solid orange, but you cannot read the words due to the smoke coming from the engine. What PPE do you need to handle this incident? What are the risks that you face? What safety precautions do you need to take to keep the situation as safe as possible?

*Scenario 2:* You respond to a 911 call for a person experiencing difficulty breathing. Whenyou arrive you find a man who appears to be 60 years old and homeless. The man is coughing continuously and exhibiting the symptoms of tuberculosis. How do you handle this situation? What PPE do you use to protect yourself against exposure?

*Scenario 3:* A structure fire is reported at a one-story residence. When you arrive, you seethat the front room is engulfed in flames. A neighbor states that the resident is a single woman who sleeps in the back bedroom and that her car is in the driveway. All of the information that you have suggests that she is still inside. Before you make entry what PPE would you need? Why?

**Directions (Part 3):** Select one of your scenario responses and transform it into a digital story.

The Individual Work Rubric will be used for assessment.