

# Instructor Led Simulation Guide

## Hazardous Waste Personal Protective Equipment

### Introduction

Anyone entering a hazardous waste site must be protected from potential chemical, physical, and biological hazards. The purpose of personal protective clothing and equipment (PPE) is to shield or isolate individuals from these dangers and reduce the risk of injury or exposure. This simulation focuses on developing participant competency in PPE selection and PPE donning procedures for Levels A, B, C, and D. Emphasis is placed on protecting the respiratory system, skin, eyes, face, hands, feet, head, body, and hearing through correct PPE choice and proper use.

### Pre Brief

The pre-brief serves to prepare participants for the simulation by explaining the objectives, roles, and context. As the instructor, ensure the following key components are covered:

**Objectives:** Identify hazards that require specific PPE levels (A, B, C, D).  
Select appropriate PPE based on site conditions and exposure risks. Demonstrate correct donning procedures for each PPE level. Recognize common errors and safety concerns during PPE use.

**Safety and Expectations:** Review simulation environment expectations.  
Reinforce that this is a learning experience; mistakes are opportunities for improvement.  
Stress the importance of communication and teamwork.

**Simulation Overview:** Section 1: PPE Selection- Participants assess a simulated hazardous scenario and determine the correct PPE level.  
Section 2: PPE Donning Procedures- Participants demonstrate proper donning techniques for Levels A, B, C, and D, following established protocols.

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### Debrief

The debrief is crucial for helping participants reflect on their experience and consolidate their learning. As an instructor, lead a group debrief immediately after the exercise or the following day to allow participants time for reflection. Facilitate reflection using guided questions:

- What hazards were identified and how did they influence PPE selection?
- Was the chosen PPE level appropriate for the scenario? Why or why not?
- Which steps in the donning process were most challenging?
- Were there any safety concerns or procedural errors observed?
- How does correct PPE use reduce risk to workers at hazardous waste sites?

Highlight key teaching points such as:

- PPE must match the type and severity of hazards present.
- Improper donning can compromise protection even with the correct PPE.
- Consistent adherence to procedures protects all body systems from exposure.

### Operating Instructions

The user interface of the simulation allows participants to select personal protective equipment and then place the equipment in the correct order for donning. Participants will be required to:

- Drag and drop equipment for each PPE category.
- Follow on-screen prompts and instructions to move through the PPE selection process and donning procedures.

**\*Note:** There may be more than one correct selection for each PPE category.

### Conclusion

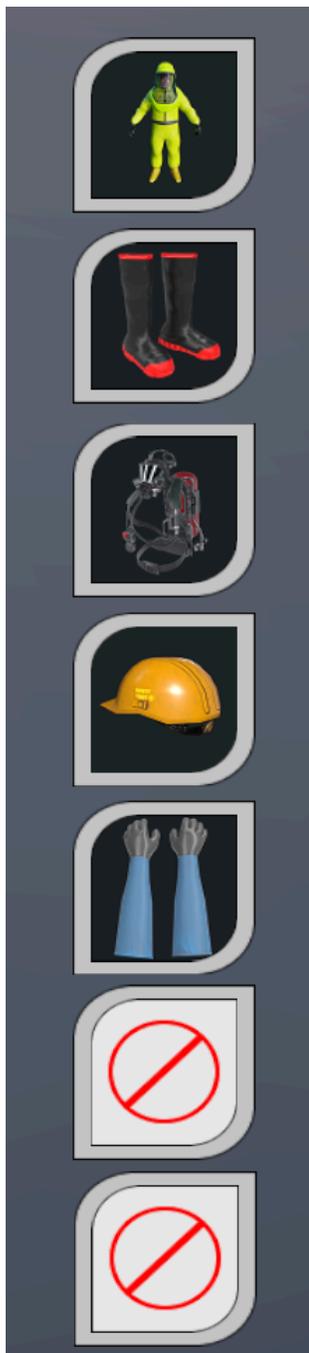
This simulation reinforces the critical role of PPE in protecting workers at hazardous waste sites. Through practice in PPE selection and proper donning for Levels A, B, C, and D, participants gain the skills needed to reduce exposure to chemical, physical, and biological hazards. Mastery of these competencies supports a safer work environment and strengthens overall hazard response readiness.



# Instructor Led Simulation Guide Hazardous Waste Personal Protective Equipment

## Answer Key

The diagrams below show the correct order for the **Level A** PPE equipment.





# Instructor Led Simulation Guide Hazardous Waste Personal Protective Equipment

## Answer Key

The diagram below shows the correct order for the **Level B** PPE equipment.





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## Hazardous Waste Personal Protective Equipment

### Answer Key

The diagrams below show the correct order for the **Level C** PPE equipment.





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## Hazardous Waste Personal Protective Equipment

### Answer Key

The diagram below shows the correct order for the **Level D** PPE equipment.

