

# Ontario Office of the Fire Marshal (OFM) Hazmat Awareness and Operations Certification Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## Questions

- 1. What is the recommended action when foam is not available during a chemical fire?**
  - A. Use water to cool the area.**
  - B. Evacuate the area immediately.**
  - C. Wait for specialized crews to arrive.**
  - D. Attempt to fight the fire without protective gear.**
- 2. In regards to hazardous materials, what does "spill containment" aim to achieve?**
  - A. To stop and manage the release of hazardous materials**
  - B. To neutralize chemical spills**
  - C. To initiate the cleanup process**
  - D. To enhance safety procedures**
- 3. What does a "secondary containment" system do?**
  - A. Provides a method for fire suppression**
  - B. Helps in the proper disposal of hazardous waste**
  - C. Prevents leaks or spills from escaping the primary container**
  - D. Acts as a barrier for radiological materials**
- 4. What should be prioritized after a hazardous material incident has occurred?**
  - A. Investigating the cause of the incident**
  - B. Ensuring public safety and health**
  - C. Restoring normal operations to the affected area**
  - D. Minimizing the costs associated with the incident**
- 5. What does the blue section of the NFPA label indicate?**
  - A. A. Health hazard**
  - B. B. Fire hazard**
  - C. C. Reactivity hazard**
  - D. D. Special hazards**

- 6. What resource can be used to determine the protective action distances involving toxic gas?**
- A. Emergency Response Guidebook**
  - B. Safety Data Sheet**
  - C. NFPA Hazardous Materials Database**
  - D. Fire Chief's Handbook**
- 7. How are airborne contaminants from the hot zone avoided?**
- A. Send only one responder in at a time.**
  - B. Decontamination areas should be set up upwind of the incident.**
  - C. The decontamination area should be located in a valley or ditch.**
  - D. Victims should wear self-contained breathing apparatus (SCBA).**
- 8. Which reference is the most specific source of information on hazardous materials?**
- A. Emergency Response Guidebook**
  - B. Safety Data Sheet**
  - C. United Nations/Transport Canada Placards**
  - D. National Fire Protection Association (NFPA) 704 System**
- 9. Which section of the Emergency Response Guidebook provides the fire or explosion and health hazard information?**
- A. Green**
  - B. Yellow**
  - C. Orange**
  - D. Blue**
- 10. How is communication equipment operated for notification of a hazardous materials incident?**
- A. Cellular phones are used within 150 metres (500 feet) of the incident.**
  - B. Departmental procedures that detail use of radios, phones, etc. are followed.**
  - C. Hand signals are limited to those personnel in the cold zone.**
  - D. Intrinsically safe radios are used in ranges over 1450 metres (500 feet).**

## **Answers**

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1. B
2. A
3. C
4. B
5. A
6. A
7. B
8. B
9. C
10. B

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## **Explanations**

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**1. What is the recommended action when foam is not available during a chemical fire?**

- A. Use water to cool the area.**
- B. Evacuate the area immediately.**
- C. Wait for specialized crews to arrive.**
- D. Attempt to fight the fire without protective gear.**

When faced with a chemical fire and foam is not available, the recommended action to evacuate the area immediately emphasizes the priority of safety for both responders and civilians. Chemical fires may involve hazardous substances that can produce toxic fumes, explosive reactions, or rapid spreading due to flammable materials. Evacuation ensures that everyone is at a safe distance from the potential danger while specialized responders who are trained and equipped to handle such incidents can take appropriate action. This choice underscores the importance of recognizing that not all fires can or should be fought without the appropriate resources and expertise. In this scenario, protecting life and preventing exposure to harmful chemicals takes precedence. The other options could compromise safety, such as using water which may not be effective against certain chemicals, waiting without ensuring safety protocols are followed, or attempting to engage with a fire without the proper protective equipment, which could lead to severe injury or even fatalities.

**2. In regards to hazardous materials, what does "spill containment" aim to achieve?**

- A. To stop and manage the release of hazardous materials**
- B. To neutralize chemical spills**
- C. To initiate the cleanup process**
- D. To enhance safety procedures**

Spill containment specifically aims to stop and manage the release of hazardous materials to prevent further contamination and protect human health and the environment. This process involves immediate actions to contain the spill, such as using barriers, absorbents, or specialized materials designed to encircle and limit the spread of hazardous substances. The primary goal is to prevent the hazardous material from spreading beyond its initial release point, thus minimizing risks associated with exposure and environmental impact. While neutralizing chemical spills, initiating the cleanup process, and enhancing safety procedures are important aspects of hazardous material management, they come after the initial containment step. Neutralization typically occurs after containment and is focused on reducing the hazard posed by the spilled substance. Initiating cleanup is a subsequent phase following containment actions, and enhancing safety procedures is an ongoing effort rather than a direct response to a specific spill incident.

### **3. What does a "secondary containment" system do?**

- A. Provides a method for fire suppression**
- B. Helps in the proper disposal of hazardous waste**
- C. Prevents leaks or spills from escaping the primary container**
- D. Acts as a barrier for radiological materials**

A secondary containment system is designed specifically to prevent any leaks or spills from escaping the primary container. This is crucial in hazardous materials management, as it acts as an additional layer of protection that safeguards the environment and human health from potential contamination. When a primary container—such as a tank or drum—fails, the secondary containment will contain the leaked material, allowing for safe cleanup and preventing the hazardous substances from entering soil, water sources, or the atmosphere. The system can take various forms, such as a double-walled tank, a containment basin, or dikes, which are built to hold the potential volume of the liquid should a leak occur. The goal of such systems is to minimize the risk of environmental damage and ensure compliance with safety regulations. The other options, while relevant to hazardous materials management, do not accurately describe the primary function of a secondary containment system. Fire suppression methods, hazardous waste disposal practices, and barriers for radiological materials pertain to different aspects of safety and hazard management but do not align with the specific role of secondary containment in preventing environmental contamination from leaks or spills.

### **4. What should be prioritized after a hazardous material incident has occurred?**

- A. Investigating the cause of the incident**
- B. Ensuring public safety and health**
- C. Restoring normal operations to the affected area**
- D. Minimizing the costs associated with the incident**

Ensuring public safety and health is the foremost priority following a hazardous material incident. In the aftermath of such incidents, there is often an immediate risk to the public, including exposure to hazardous substances that can carry significant health implications. The first responders and relevant authorities must act to protect individuals from the physical dangers present in the environment. This means establishing safety perimeters, assessing the situation to identify potential threats, and implementing measures to mitigate those risks. Addressing public safety and health first ensures that the community is safeguarded from any potential harm associated with hazardous materials. It encompasses immediate actions such as evacuations, medical assistance for affected individuals, and informing the public about safety protocols. Prioritizing this aspect helps to reduce panic, protect lives, and prevent further complications that could arise from mismanagement of the situation. While investigating the cause of the incident, restoring normal operations, and minimizing costs are all important considerations, these actions come after the paramount concern of public safety is addressed. If safety is compromised, all subsequent actions may be rendered ineffective or lead to further risks. Therefore, public safety and health must always take precedence in the hierarchy of response priorities in a hazardous materials incident.

**5. What does the blue section of the NFPA label indicate?**

- A. A. Health hazard**
- B. B. Fire hazard**
- C. C. Reactivity hazard**
- D. D. Special hazards**

The blue section of the NFPA (National Fire Protection Association) label indicates health hazards associated with a hazardous material. This color coding is part of the NFPA's labeling system that categorizes risks related to various substances. The scale runs from 0 to 4, where 0 represents no hazard and 4 signifies a severe health risk, which may cause significant or serious health effects upon exposure. Understanding this coding helps first responders and individuals dealing with hazardous materials to quickly identify and prioritize the dangers associated with the substance in question. By recognizing that the blue section specifically signifies health hazards, emergency responders can take the necessary precautions to protect themselves and others from potential harm related to exposure.

**6. What resource can be used to determine the protective action distances involving toxic gas?**

- A. Emergency Response Guidebook**
- B. Safety Data Sheet**
- C. NFPA Hazardous Materials Database**
- D. Fire Chief's Handbook**

The Emergency Response Guidebook (ERG) is an essential tool designed for first responders that provides vital information on the initial response to hazardous materials incidents, including incidents involving toxic gases. One of the key features of the ERG is its guidance on protective action distances, which are critical in ensuring the safety of responders and the public. This guide outlines recommended distances for evacuation or sheltering in place based on the specific toxic substances involved, allowing responders to make informed decisions quickly and effectively. The other resources, while valuable, serve different purposes. The Safety Data Sheet (SDS) provides detailed safety information on specific chemicals, including hazards, handling, and emergency measures, but does not explicitly outline protective action distances like the ERG does. The NFPA Hazardous Materials Database focuses on the classification and rating of hazardous materials, which is useful for understanding general hazards but does not directly provide protective distance measures. The Fire Chief's Handbook includes comprehensive fire service information but does not specialize in the specifics of hazardous material emergencies or protective distances. Therefore, the ERG is uniquely tailored to address initial response needs for toxic gas situations.

**7. How are airborne contaminants from the hot zone avoided?**

- A. Send only one responder in at a time.**
- B. Decontamination areas should be set up upwind of the incident.**
- C. The decontamination area should be located in a valley or ditch.**
- D. Victims should wear self-contained breathing apparatus (SCBA).**

Setting up decontamination areas upwind of the incident is crucial for minimizing exposure to airborne contaminants. When decontamination areas are positioned upwind, they benefit from prevailing winds that help disperse harmful chemicals and pollutants away from the area, reducing the likelihood of responding personnel or victims being affected by airborne contaminants. This practice supports the safety of all individuals involved in the operation by ensuring that they are not inhaling potentially toxic substances present in the hot zone. In contrast, other options do not adequately address the prevention of airborne contaminant exposure. Sending only one responder at a time does not mitigate the risk of exposure for the entire team or for victims. Locating decontamination in a valley or ditch could trap contaminants rather than allowing them to disperse, potentially increasing risk. Lastly, while wearing a self-contained breathing apparatus (SCBA) provides personal protection from inhaling contaminants, it does not prevent the release or spread of airborne pollutants in the environment. Hence, the strategic position of decontamination zones is vital for effective hazard management in emergencies involving hazardous materials.

**8. Which reference is the most specific source of information on hazardous materials?**

- A. Emergency Response Guidebook**
- B. Safety Data Sheet**
- C. United Nations/Transport Canada Placards**
- D. National Fire Protection Association (NFPA) 704 System**

The Safety Data Sheet (SDS) is the most specific source of information on hazardous materials because it provides detailed insights about a particular substance, including its properties, potential hazards, safe handling practices, and emergency response measures. SDS documents are required by law for hazardous chemicals and contain consistent information structured in a standardized format, making it easy for emergency responders and workers to locate critical information quickly. In contrast, the Emergency Response Guidebook offers general guidance for dealing with hazardous materials incidents but does not provide detailed information about specific substances. While the United Nations/Transport Canada placards indicate the type of hazard associated with transported materials, they lack the comprehensive detail found in an SDS. Similarly, the National Fire Protection Association (NFPA) 704 System provides a method for identifying the hazards associated with materials but does not give in-depth information about the properties or emergency procedures related to a specific substance. Thus, the Safety Data Sheet stands out as the most specific and informative resource for hazardous materials.

**9. Which section of the Emergency Response Guidebook provides the fire or explosion and health hazard information?**

- A. Green
- B. Yellow
- C. Orange**
- D. Blue

The section of the Emergency Response Guidebook that provides information related to fire or explosion hazards and health risks is the Orange section. This section is specifically designed to address concerns about the immediate hazards associated with materials, including flammability, reactive properties, and toxic health effects. In emergencies involving hazardous materials, understanding these hazards is crucial for first responders, as it informs them of the necessary precautions to take and the protective measures needed during initial attack operations. The Orange section acts as a guide to appropriately assess the risk and devise a plan for safe containment and incident management. The other sections, while important for different types of information—such as initial isolation distances, evacuation guidelines, or specific chemical properties—do not focus on the specific health and fire hazards covered in the Orange section.

**10. How is communication equipment operated for notification of a hazardous materials incident?**

- A. Cellular phones are used within 150 metres (500 feet) of the incident.
- B. Departmental procedures that detail use of radios, phones, etc. are followed.**
- C. Hand signals are limited to those personnel in the cold zone.
- D. Intrinsically safe radios are used in ranges over 1450 metres (500 feet).

The correct answer highlights the importance of following established departmental procedures for the use of communication equipment during a hazardous materials incident. These procedures ensure that communication is clear, effective, and safe, allowing for coordinated responses among emergency personnel. By adhering to protocol, teams can mitigate risks associated with potential communication failures or misunderstandings, which are critical in high-stress situations where clarity is paramount. Operational procedures typically cover various communications tools, including radios, phones, and any incident-specific communication measures. This structured approach maximizes the likelihood that all team members are on the same page, which is vital in managing hazardous materials incidents where coordination and situational awareness are essential for safety and effective response. While options referring to specific equipment like cellular phones or hand signals may seem relevant, they do not encompass the broader scope of incident management. The focus should be on comprehensive procedures that outline how different types of communication should be utilized, rather than the limitations or specific applications of single equipment types.