

HAZMAT OPERATIONS SKILLS COMPETENCIES

1. Identify Potential Hazards.

REFERENCE: NFPA 1072, 2017 Edition 5.2.1

CONDITION: The candidate will identify the scope of the problem at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources.

COMPETENCE:

- Identify Container types at a hazardous materials/WMD incident
- Identify materials at a hazardous materials/WMD incident.
- Identify location of release at a hazardous materials/WMD incident.
- Identify surrounding conditions at a hazardous materials/WMD incident.
- Collect hazard information
- Communicate with pipeline operators or carrier representatives
- Describe the likely behavior of the hazardous materials or WMD and its container
- Describe the potential hazards, harm, and outcomes associated with that behavior and the surrounding conditions

TIME: 10:00 minutes

2. Identify Action Options.

REFERENCE: NFPA 1072, 2017 Edition 5.3.1

CONDITION: The candidate will identify the actions options for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, approved reference sources, and the scope of the problem, so that response objectives, action options, safety precautions, suitability of approved personal protective equipment(PPE) available, and emergency decontamination needs are identified.

COMPETENCE:

- Identify response objectives and action options based on the scope of the problem and available resources
- Identify and take safety precautions
- Identify whether approved PPE is suitable for the incident conditions
- Identify emergency decontamination needs based on the scope of the problem.

TIME: 10:00 Minutes

3. Action Plan Implementation.

REFERENCE: NFPA 1072, 2017 Edition 5.4.1

CONDITION: The candidate will perform assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE.

COMPETENCE:

- Establish and maintain scene control
- Recognize and preserve evidence
- Choose, inspect, don, work in, and go through decontamination while wearing, and doffing approved PPE
- Isolate contaminated tools, equipment, and PPE
- Conduct gross decontamination of contaminated personnel, tools, equipment, and PPE in the field
- Clean, disinfect, and inspect approved tools, equipment, and PPE.
- Protect exposures and personnel
- Follow safety procedures
- Avoid or minimize hazards
- Complete assignment

TIME: 10:00 Minutes

4- Emergency Decontamination

REFERENCE: NFPA 1072, 2017 Edition 5.5.1

CONDITION: The Candidate will perform emergency decontamination at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment and PPE for emergency decontamination

COMPETENCE:

- Select an emergency decontamination method
- Set up emergency decontamination in a safe area
- Select proper PPE for the incident
- Use PPE in the proper manner
- Implement emergency decontamination
- Prevent spread of contamination
- Avoid hazards during emergency decontamination
- Protect exposures and personnel
- Follow Safety procedures

TIME: 30:00 Minutes

5. Progress Evaluation & Reporting.

REFERENCE: NFPA 1072, 2017 Edition 5.6.1

CONDITION: The candidate will evaluate and report the progress of the assigned tasks for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of assigned tasks, and approved communication tools and equipment

COMPETENCE:

- Determine incident status.
- Determine whether the response objectives are being accomplished
- Use approved communication tools and equipment
- Communicate the status of assigned tasks

TIME: 30:00 Minutes

6. Personal Protective Equipment (PPE)

REFERENCE: NFPA 1072, 2017 Edition 6.2.1

CONDITION: The candidate will select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; response objectives and options for the incident; access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operation procedures; approved PPE; and policies and procedures

COMPETENCE:

- Select PPE for the assignment
- Inspect, maintain, and store PPE
- Don PPE.
- Work in PPE
- Doff PPE
- Go through decontamination (emergency and technical) while wearing the PPE
- Report and document the use of PPE
- Protect exposures and personnel
- Follow safety procedures
- Avoid or minimize hazards

TIME: 30:00 Minutes

7. Product Control – Cargo Tanks

REFERENCE: NFPA 1072, 2017 Edition 6.6.1

CONDITION: The candidate will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP, scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures

COMPETENCE:

- Select and use PPE
- Select and perform product control techniques to confine/contain the release with limited risk of personal exposure
- Use approved control agents and equipment on a release involving hazardous materials/WMD
- Use remote control valves and emergency shutoff devices on cargo tanks
- Perform product control techniques
- Protect exposures and personnel
- Follow safety procedures
- Avoid or minimize hazards
- Product is controlled
- Decontamination is completed
- Operations are reported and documented

TIME: 30:00 Minutes

8. Product Control – Intermodal Tanks

REFERENCE: NFPA 1072, 2017 Edition 6.6.1

CONDITION: The candidate will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP, scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures

COMPETENCE:

- Select and use PPE
- Select and perform product control techniques to confine/contain the release with limited risk of personal exposure
- Use approved control agents and equipment on a release involving hazardous materials/WMD
- Use remote control valves and emergency shutoff devices on intermodal tanks in transportation
- Perform product control techniques
- Protect exposures and personnel
- Follow safety procedures
- Avoid or minimize hazards
- Product is controlled
- Decontamination is completed
- Operations are reported and documented

TIME: 30:00 Minutes

9. Product Control – Fixed Facilities.

REFERENCE: NFPA 1072, 2017 Edition 6.6.1

CONDITION: The candidate will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP, scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures

COMPETENCE:

- Select and use PPE
- Select and perform product control techniques to confine/contain the release with limited risk of personal exposure
- Use approved control agents and equipment on a release involving hazardous materials/WMD
- Use remote control valves and emergency shutoff devices on containers at fixed facilities
- Perform product control techniques
- Protect exposures and personnel
- Follow safety procedures
- Avoid or minimize hazards
- Product is controlled
- Decontamination is completed
- Operations are reported and documented

TIME: 30:00 Minutes