

Objectives

- 37-1.1 Given a true incident, the student shall identify his/her role as a technician. (NFPA 472: 4-4.1.1)
- 37-1.2 Recognize and identify the various hazards.
- 37-1.3 Recognize and identify isolation needs and distances.
- 37-1.4 Student will identify the product involved and its hazards.
- 37-1.5 Student shall identify the needed information and resources.
- 37-1.6 Student shall determine the procedure for and the type of mitigation needed.
- 37-1.7 Student shall identify the steps in terminating the incident.
- 37-1.8 Identify the “lessons learned” in the incident.
- 37-2.1 Define “medical surveillance”.
- 37-2.2 Discuss how a medical surveillance program helps prevent work-related illness and injury.
- 37-2.3 List the elements of medical surveillance.
- 37-2.4 Discuss the three main purposes of pre-placement testing and medical examination.
- 37-2.5 List the types of periodic medical exams.
- 37-2.6 Describe the process for reviewing a medical surveillance program.
- 37-3.1 Student shall identify the five step process of mitigating a hazardous materials incident.
- 37-3.2 Student shall identify the sections of the site safety plan and have a working knowledge of how to complete the site safety plan.
- 37-3.3 Identify the steps in terminating an incident.

- 37-4.1 Students shall understand laws and regulations governing testing Level A suits.
- 37-4.2 Students shall be able to visually inspect all parts of a Level A suit.
- 37-4.3 Students shall be able to perform a pressure test on a Level A suit.
- 37-4.4 Students shall understand the procedure for retesting a suit or taking it out of service.
- 37-5.1 Students shall understand the laws and regulations governing respiratory protection.
- 37-5.2 Students shall understand the SCBA fit testing process.
- 37-5.3 Students shall perform a fit test.
- 37-6.1 Identify the types of monitoring equipment available to a hazardous materials technician. (NFPA 472: 4-2.1.3.2)
- 37-6.2 Identify the limiting factors associated with the selection and use of monitoring equipment.
- 37-6.3 Identify resources for advanced monitoring equipment and operation.
- 37-7.1 Define common chemistry terms.
- 37-7.2 Recognize the chemicals most commonly dealt with.
- 37-7.3 Understand the difference between dilution, neutralization, and emulsification.
- 37-7.4 Understand the math needed in performing chemical calculations.
- 37-7.5 Given a particular chemical and amount spilled, student shall estimate the amount of neutralization needed.
- 37-8.1 Identify modern advanced mitigation tools and techniques.
- 37-8.2 Demonstrate the ability to use proper mitigation devices. (NFPA 472: 4-4.3.2)

- 37-8.3 Identify the maintenance and inspection procedures for tools and equipment. (NFPA 472: 4-4.3.5)
- 37-8.4 Demonstrate the ability to properly install a dome clamp. (NFPA 472: 4-4.3.8)
- 37-8.5 Identify methods and precautions used when controlling a fire involving MC 306. (NFPA 472: 4-4.3.9)
- 37-8.6 Describe methods for containing leaks in various highway cargo tanks. (NFPA 472: 4-4.3.10)
- 37-8.7 Describe product removal and transfer considerations for overturned cargo tanks. (NFPA 472: 3-4.3.11)
- 37-9.1 Recognize the need for rapid intervention.
- 37-9.2 Recognize the need for a plan to rescue a team member.
- 37-9.3 Identify how to prepare for such emergencies.
- 37-9.4 Demonstrate techniques for rescuing a team member out of the hot zone.
- 37-10.1 Recognize the need for emergency decon.
- 37-10.2 Recognize the need for a plan to perform emergency decon.
- 37-10.3 Identify how to prepare for emergency decon.
- 37-10.4 Demonstrate the techniques of emergency decon of a conscious and an unconscious team member.
- 37-11.1 Given a true scenario, students shall review the procedures and techniques used to mitigate the incident.
- 37-11.2 Complete a site safety plan for the incident.
- 37-11.3 Review “lessons learned”.
- 37-11.4 Student will identify the actions he/she would have taken given the same scenario.

- 37-12.1 Define fixed facility.
- 37-12.2 Identify the hazards associated with responding to fixed facilities.
- 37-12.3 Identify the safety systems at fixed facilities.
- 37-12.4 Recognize the need for pre-incident planning.
- 37-13.1 Recognize the threat of pipeline emergencies.
- 37-13.2 Identify the hazards associated with responding to pipeline ruptures.
- 37-13.3 Identify the tactical considerations at the scene of a pipeline rupture.
- 37-13.4 Recognize the need for pre-incident planning.
- 37-13.5 Identify the resources needed to mitigate a pipeline emergency.
- 37-14.1 Recognize the types of barges used and the products transported.
- 37-14.2 Identify the hazards associated with responding to barge incidents.
- 37-14.3 Recognize the volume range that barges carry.
- 37-14.4 Recognize the need for pre-incident planning.
- 37-14.5 Identify the process of loading and unloading barges.
- 37-15.1 Identify the need for advanced planning.
- 37-15.2 Identify the resources available to the Hazardous Material Technician.
- 37-15.3 Identify the various chemical databases available.
- 37-15.4 Student shall be introduced to the operation of CAMEO.
- 37-16.1 Demonstrate recognition and identification skills.
- 37-16.2 Demonstrate scene safety procedures.
- 37-16.3 Demonstrate incident analysis skills.

- 37-16.4 Demonstrate hazardous materials technician decision making skills.
- 37-16.5 Demonstrate hazardous materials technician advanced mitigation skills.
- 37-16.6 Demonstrate the ability to complete all pertinent documentation.
- 37-16.7 Identify “lessons learned” during critique.