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