

TDEM will provide instructors, props, certificates, and all student materials needed to conduct on-site training at your location. The host jurisdiction must provide students<sup>3</sup>, suitable training room<sup>4</sup> with open field/parking lot nearby.

The spirit and intent of the HMEP Training Grant is to provide HazMat training to local jurisdictions which have limited funds for first responder training. **Rural County Host** may be eligible for a waiver to the maximum number of students per class rule. More information is available at [www.preparingtexas.org](http://www.preparingtexas.org).

All Hazardous Material courses offered by TDEM are compliant with OSHA 29CFR 1910.120, EPA 40CFR Part 311, NFPA Standard 472 and qualify for TCLEOSE credit. These courses are funded, at no cost to you, by US DOT.


**All Students must be Public Employees or Volunteers:** Students must be employed or used by a political subdivision, school district, special district, interstate district, council of government, or any other regional or interstate government entity. Private sector, federal, non-profit, or not-for-profit employees may not be eligible for these classes. Volunteers must apply through their public sector agencies.

For information, requirements, course descriptions, or prerequisites, go to the Preparing Texas website [www.preparingtexas.org](http://www.preparingtexas.org).

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**HMEP Planning Grant:** In addition to this training grant, TDEM administers the HMEP Planning Grant. This is a reimbursement grant awarded annually to LEPC's for the enhancement and the implementation of Emergency Planning and the Community Right-to-Know Act (EPCRA) of 1986. The grant can be used for the following:

- Conducting Commodity Flow Studies



**TEXAS**  
DEPARTMENT OF  
PUBLIC SAFETY

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# NO COST TO YOU

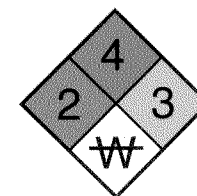
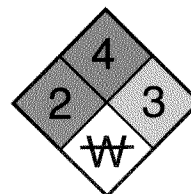
## Hazardous Material

### Training Courses



Offered by  
**Texas Division of Emergency  
Management**

Funded by  
**US Department of Transportation's  
Hazardous Material Emergency  
Preparedness (HMEP) Training Grant**



# Awareness Level Training

## H-100 HazMat Awareness

This is an 8-hour entry-level course for all first responders and any other public employees or officials who are likely to witness or discover a hazardous material incident. The course provides a regulatory overview, an understanding of what hazardous materials are, associated risk and an understanding of potential outcomes. Students will learn to recognize the presence of hazardous materials, the roles of first responders in emergency response plans, how to use the Emergency Response Guidebook and how and when to call for assistance. The course is a prerequisite for most other HazMat Courses taught under the HMEP Grant.

## H-101 Pipeline Emergencies–Awareness

This 8-hour awareness-level course is for public employees likely to witness or discover hazardous releases from the many pipelines that cross their jurisdiction. The course presents a regulatory overview covering pipeline safety and prevention. Students will complete exercises using the Emergency Response Guidebook and product Material Safety Data Sheets (MSDS).

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# Operations Level Training

## H-200 HazMat First Responder Operations

A 16-hour operations-level course intended for all fire and EMS responders, for some law enforcement personnel, public works and emergency managers. The course presents a regulatory overview, basic understanding of hazardous material terminology, basic hazard risk assessment, types and use of protective equipment, respiratory protection, how to perform control, containment and confinement operations, basic decontamination procedures, the emergency responders role in ICS, and proper incident termination procedures.

## H-201 Pipeline Emergencies–Operations

This 16-hour operations-level course presents gas and liquid pipeline operations, terminology, pipeline equipment, and unique hazards of pipeline transportation. The course is for all public employees who are likely to

witness or discover releases from pipelines to include fire, rescue, law enforcement personnel, incident commanders, and other local or state officials.

## H-202 Pipeline Emergencies–Awareness/Operations

This 24-hour operations-level course is a combination of both H-101 Pipeline Emergencies Awareness and H-201 Pipeline Emergencies Operations. The course is intended for all fire, rescue, law enforcement personnel, incident commanders, and other local or state officials likely to discover or witness a hazardous release from pipelines in their jurisdictions.

## H-203 Confined Space Safety

This 16-hour operations-level course is for individuals with hazardous material emergency response, fire and rescue backgrounds with the responsibility to identify permitted confined spaces, recognize, evaluate hazards, and the selection of PPE required for safe entry. Students will apply the techniques of isolation and control for energy sources and issue entry permits for confined spaces.

## H-204 HazMat First Responder–Awareness/Operations

This 24-hour operations-level course is a combination of both H-100 HazMat Awareness and H-200 HazMat First Responder Operations. The course is designed to be taught over (3)-8 hr. days or (2)-12 hr. days to allow more training flexibility for department to conduct classes.

The course is intended for all fire, rescue, EMS, law enforcement, public works and emergency managers who respond to emergencies for the purpose of protecting nearby persons, the environment, or property from the effects of the release.

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# Technician Level Training

## H-300 HazMat Emergency Response Technician Upgrade

This 16-hour technician-level upgrade course is for those individuals assigned to hazmat response teams that have completed H-100 HazMat Awareness and H-200 HazMat First Responder Operations that require training at the Technician level. The course presents a regulatory overview,

understanding basic chemical terminology, basic toxicology terminology, chemical behavior, implementation of emergency response plans, the use of field survey instruments to classify, identify unknown materials, selection, use of PPE, understanding of hazard, risk assessment techniques as well as understanding termination procedures. Students will perform control, containment, and/or offensive confinement operations, and implement decontamination procedures through intense hands-on exercises.

### **H-301 HazMat Emergency Response Technician**

This 40-hour technician-level course is a combination of the H-100 Awareness, H-200 HazMat First Responder Operations and H-300 HazMat Emergency Response Technician Upgrade courses. It is intended for personnel who could encounter hazardous material. This includes protecting oneself from HazMat, how to contact the proper HazMat specialists and how to secure the area of the incident in order to protect nearby persons, property and the environment. Also included is the selection of appropriate PPE, decontamination procedures, and the implementation of action options to mitigate the incident.

### **H-302 HazMat Refresher Training**

This 8-hour technician-level course includes both classroom and field activities. This course is designed to meet or exceed CFP 1910/120 (q) (8) (i) annual refresher training requirements. The course presents a regulatory overview and practical exercises. Students will also receive hands-on training to ensure they have refreshed their original skill sets. Those individuals who have HazMat training or certification at operations or technician level may attend this course.

### **H-303 Pipeline Emergencies Technician**

This 40-hour technician-level course is intended for public employees who are likely to witness or discover releases from many pipelines that cross their jurisdiction. This includes fire, rescue, EMS, Law enforcement, Incident Commanders, and other local/state officials. This course is intended to cover regulatory, pipeline safety and prevention subject matter. In addition to these areas the class participants will complete exercises using the Emergency Response Guidebook and MSDS. This course is taught at Brayton Fire Field only.

### **H-304 Confined Space Rescue**

This 40-hour technician-level course teaches how to safely and efficiently perform confined space rescues in municipal environments through classroom presentations and field exercises. The curriculum meets or exceeds requirements for training in accordance with NFPA 1670, 1999 edition and with OSHA 29 CFR 1910.146. It is designed for individuals who are likely to be involved in or serve on an Emergency Response Rescue Team in either an active or support capacity.

### **H-305 Oil Spill Containment, Protection and Recovery Tactics (Inland Water)**

This 24-hour technician-level course focuses on practical application of existing available technology for the containment and recovery of spilled oil in inland freshwater environments and protection of adjoining shorelines. Emphasis areas are on realistic capabilities and limitations of equipment, optimization of equipment performance using sound employment tactics, and safety considerations associated with waterside and water born operations. Practical knowledge is gained through multiple field training and scenario based deployments drills, and multi-phased table top exercises. This class is for those individuals assigned to a HazMat Response Team, fire fighters and other local/state officials who might respond to a hazardous material incident on a large body of freshwater. Because of intense hands-on training, a current physical examination is also recommended.

### **H-306 NFPA 1006 Trench Rescue—Non-Certification**

After completing this 36-hour course participants will have the ability to evaluate, manage, and perform a Trench Rescue in accordance with NFPA 1006. Topics to include: Soil analysis and mechanics, Soil classifications, Trench dynamics, Hydraulic/Pneumatic shoring, Excavation safety per OSHA 29 CFR 1926 Subpart P, Trench rescue operations, and ICS for trench rescue. This course is for firefighters and law enforcement personnel. The host must provide a backhoe and operator to support this class.

### **H-307 NFPA 472 Product Control**

An 8-hour technician-level course for emergency responders assigned to perform product control at hazardous material incidents. This course presents participants with knowledge and skills needed to conduct defensive product control operations. Students will engage in practical hands-on product control and defensive control activities that include diking, retention, absorption, diversion, and vapor suppression.

### **H-502 NFPA 472 Incident Command, Pro-Board Certification**

This 16-hour certification-level course addresses the OSHA requirements per 29CFR1910.120 (q) (6) (v), competencies of NFPA 472, Chapter 5 and Tentative Interim Amendment (TIA) 97-1. The course presents a regulatory overview, elements of emergency response plans and local, state, and federal response agencies, and how they interface with the Incident Command System. The student will also learn to analyze hazardous materials plan response operations, use personal protective equipment, safe work practices, and HazMat incident termination procedures. This course meets the professional qualification standards of NFPA. The course host must provide a test proctor prior to class, in addition to a suitable classroom location.

### **H-503 NFPA 1006 Confined Space Rescue, Levels I & II Pro-Board Certification**

This 40-hour certification-level course meets certification requirements for confined space rescue based on NFPA 1006, 2008 edition. After completion of the course, students will take written and skills tests. This course meets the professional qualification standards of NFPA. The course host must provide a test proctor prior to class, in addition to a suitable classroom location.

### **H-504 NFPA 1006 Trench Rescue, Levels I & II Pro-Board Certification**

This 40-hour certification-level course will provide instruction on soil analysis, mechanics, classification, trench dynamics, hydraulic and pneumatic shoring, excavation safety per OSHA 29 CFR 1926 Subpart P, trench rescue operation and ICS for trench rescue. Course participants will have the ability to evaluate, manage, and perform a trench rescue in accordance with NFPA 1006. After completion of the course, students will take the written and skill tests. This course meets the professional qualification standards of NFPA. The course host must provide a backhoe and operator to support this class. In addition, a test proctor and a suitable classroom location is required.

### **H-505 NFPA 472 HazMat Product Control, Pro-Board Certification**

This 12-hour technician-level certification course will provide emergency responders assigned to perform product control with the basic skills required

for certification under Chapter 6, “Competencies for Operations Level Responders Assigned Mission-Specific Responsibilities,” as described in NFPA 472 (2008 Edition). Students will learn to identify response options, control techniques, appropriate PPE, foam application, remote shutoff devices, and procedures for technical decontamination. The course host must provide a test proctor prior to class, and a suitable classroom location for testing.

### **H-506 NFPA HazMat Rail Specialist, Pro-Board Certification**

This 20-hour certification-level course is designed for all responders trained to the HazMat Technician level to further their training at the specialist level. The responder will be instructed on cargo type design, damage assessment, transfer techniques, repair, patching, flaring, safety, drilling, pumping, product removal, and Midland Kits. The course meets the NFPA 472 Chapter 12 tank car competencies. This course is taught at Brayton Fire Field only.

### **H-507 NFPA 472 HazMat Highway Specialist, Pro-Board Certification**

This 20-hour certification-level course is designed for all responders trained to the HazMat Technician level to further their training at the specialist level. The responder will be instructed on cargo type design, damage assessment, transfer techniques, repair, patching, flaring, safety, drilling, pumping, product removal, and “B” Chlorine Kit. The course meets the NFPA 472 Chapter 13 cargo tank competencies. This course is taught at Brayton Fire Field only.

### **H-508 NFPA 472 HazMat Intermodal Specialist, Pro-Board Certification**

This 10-hour certification-level course is designed for all responders trained to the HazMat Technician level to further their training at the specialist level. The responder will be instructed on cargo design, damage assessment, transfer techniques, repair, patching, flaring, safety, drilling, pumping, and product removal. The course meets the NFPA 472 Chapter 14 competencies for intermodal tank specialty. This course is taught at Brayton Fire Field only.

## **H-509 NFPA 472 HazMat Transportation Specialist, Pro-Board Certification**

This 50-hour certification-level course is a combination of the H-506 HazMat Rail Specialist, H-507 HazMat Highway Specialist and H-508 HazMat Intermodal Specialist courses. The course meets the NFPA 472 Chapter 12, 13, 14 competencies. This course is taught at Brayton Fire Field only.

## **H-510 NFPA 472 Air Monitoring for Hazardous Materials, Pro-Board Certification**

This 16 hour certification-level course is for all fire prevention, suppression, control, and safety personnel. Instruction provides basic knowledge and techniques utilizing air monitoring devices. Field exercise will be conducted using instruments. Students will gain the skills and knowledge required for certification to the National Fire Protection Association (NFPA) 472, Standard for Competence of Responders to Hazardous Material/Weapons of Mass Destruction Incidents, competency 6.7, and Mission-Specific Competencies: Air Monitoring and Sampling (2008 edition) this course also meets OSHA's requirements per 29 CFR 1910.120 (q).



## **H-511 HazMat Awareness Level, Pro-Board Certification**

This 8 Hr certification-level course is for personnel who could encounter an emergency involving hazardous materials and who are expected to recognize the presence of the hazardous materials, protect themselves, call or trained personnel, and secure the areas. Upon completion of course students are eligible to take National Board on Fire Service Professional Qualifications written exam for NFPA Chapter 4 Competencies for Awareness Level Personnel. The exam will be provided at the end of training.



## **H-512 HazMat First Responder Operations, Pro-Board Certification**

This 16 hour certification-level course is for personnel who respond to emergencies involving hazardous materials for the purpose of protecting nearby persons, the environment, or property from the effects of the release. The host facility will need to secure and provide a written text proctor prior to the class. Upon completion of course students are eligible to take National

Board on Fire Service Professional Qualifications written exam for NFPA Chapter 4 Competencies for Awareness Level Personnel. The exam will be provided at the end of training.



## **H-513 NFPA 472 Response to Illicit Laboratory Incidents, Pro-Board Certification**

This 16 hour certification-level course is for personnel trained to the operations level who may discover or respond to an illicit laboratory incident. Instruction is focused on the initial response to a possible illicit chemical, biological, or drug laboratory. Upon completion of course students are eligible to take National Board on Fire Service Professional Qualifications written exam for NFPA Chapter 4 Competencies for Awareness Level Personnel. The exam will be provided at the end of training.

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**Note:** For Pro-Board courses you must have one of the following:

1. A Pro-Board or IFSAC certificate specifying the required HazMat Operations or above required prerequisite.
2. A transcript from an accredited agency that lists successful completion of HazMat Operations or above level of training.
3. Printout of the DOD, Texas Commission, or similar look-up pages that include the required prerequisite.
4. A TDEM/TEEX HazMat First Responder Operations or above certificate.

Participants who successfully complete the course and pass the required written and skills test will receive National Board on Fire Service Professional Qualifications (Pro-Board) Certification. HMEP funding does not include specialized (i.e. IFSAC) manuals, certification testing fees, etc., these are the responsibility of the student/department/jurisdiction.

**Note:** To receive full benefits from these courses, it is recommended that they be taught at an approved fire training facility.