

Awareness Level Training

H-100 HazMat Awareness

This is an 8-hour entry-level course for all 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 those likely to witness or discover a hazardous release from pipelines. 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).

Operations Level Training

H-200 HazMat First Responder Operations

This A-16-hour operations-level course is 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 terms, terminology, basic hazard risk assessment, types and use of protective equipment, respiratory protection, how to perform control, containment, confinement operations, basic decontamination procedures, the emergency responders role in ICS, and proper incident termination procedures.

specialist level. The responder will be instructed on cargo type 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.

NEW

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, 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.

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 includes the required prerequisite. 4. A TDEM/TEEX HazMat First Responder Operations or above certificate. Host must provide a test proctor prior to class. 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.

TDEM will provide instructors, props, certificates, and all student materials needed to conduct on-site training at your location. The host jurisdiction must provide students¹, suitable training room² with open field/parking lot nearby.

¹ Most courses have a 20 student minimum

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 suitable classroom location.

NEW

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.

NEW

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.

NEW

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

H-201 Pipeline Emergencies Operations

This 16-hour operations-level course presents gas and liquid pipeline operations, terminology, pipeline equipment, operations and unique hazards of pipeline transportation. The course is 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-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.

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

² ADA compliant, table & chairs, A/C, heat, etc.

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 H-100 HazMat Awareness, H-200 HazMat First Responder Operations, and H-300 HazMat Emergency Response Technician Upgrade and is intended for individuals assigned to hazmat response teams. For course content review Awareness, Operations and Technician Upgrade course content above.

H-302 HazMat Refresher Training

The 8-hour technician-level course includes both classroom and field activities. This course is designed to fulfill the OSHA annual refresher training requirement for hazmat personnel. 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

The 40-hour technician-level course is intended for all fire and EMS responders, some law enforcement personnel, public works and emergency managers who might respond to a pipeline hazmat incident. The course presents a regulatory overview, pipeline safety and prevention subject matter. Students will complete exercises using the Emergency Response Guidebook and product MSDSs. This course is taught at Brayton Fire Field only.

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 Technician, Pro-Board Certification

This 40-hour certification-level course meets certification requirements for confined space rescue technicians based on NFPA 1006, 2006 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, 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 29CFR1926 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 test proctor prior to class, in addition to a suitable classroom location.

NEW

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

Certification Level Training

H-500 HazMat Technician

Texas Commission on Fire Protection (TCFP) Certification

This 80-hour certification-level course is designed to provide students with the basic skill set needed to satisfy the minimum requirements of the Texas Commission on Fire Protection for State Certified Hazardous Material Technician. Upon completion of the class, the class participants will need to contact TCFP to schedule written testing. This course can be taught at TCFP approved training facilities. To view additional course requirements go to www.preparingtexas.org.

H-501 NFPA 472 HazMat Technician, Pro-Board Certification

This 36-hour certification-level course will provide the tools necessary to obtain certification through NPQS³. The course presents surveying the incident, container ID, condition, marking, monitoring equipment, resource utilization, control functions and response objectives. The student will also learn about PPE, chemical compatibility, developing action plans, incident management, evaluation progress and incident termination.

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

H-304 Confined Space Rescue Technician

This 40-hour technician-level course teaches how to safely and efficiently perform confined space rescues in industrial and 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 "Permit Required Confined Spaces for General Industry". 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 water environments and protection of adjoining shorelines. The course presents response, containment, recovery, tactical ICS for oil spills, boat safety, boom deployment, shoreline protection, skimmer, pump operations, storage basics and spill control. This course meets OSHA 29 CFR 19120.120 training requirements. It is recommended students be either certified or trained to the HazMat Operations or Technician-level. Because of intense hands-on training, a current physical examination is also recommended.

NEW H-306 NFPA 1006 Trench Rescue Non-Certification

After completing this 36-hour technician-level 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 29CFR1926 Subpart P, Trench rescue operations, and ICS for trench rescue. Course participants will have the ability to evaluate, manage, and perform a Trench Rescue in accordance with NFPA 1006.

³ National Professional Qualification System (Pro-Board)



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 at hazardous material incident scenes. Students will engage in practical hands-on product control and defensive control activities that include diking, retention, absorption, diversion, and vapor suppression.

Advance Level Training

H-400 Advanced HazMat Technician

This 24-hour advance-level course is for individuals who are likely to respond to transportation emergencies involving railcars, highway transportation containers, and/or intermodal containers. The suggested audience includes fire service, rescue, EMS, law enforcement, incident commanders, and other local or state officials. The course presents container identifications, damage assessment, advanced grounding and bonding, dome clamping and other advanced-level skills. If a railcar or tractor trailer (DOT 306/406) is not available at the training site, the course will be taught with props.

H-401 HazMat Incident Command System

This 16-hour advance-level course is designed for all public employees who may serve in the roll of Incident Commander during a significant hazardous material incident. The ICS course presents a regulatory overview, implementation of emergency response plans, an overview of the state emergency response plan, information on federal regional response teams and an understanding of the risk associated with employees working in chemical protective clothing. In addition, students will learn hazardous materials terms, incident command system, ICS terminology, and decontamination procedures.

H-402 NFA Chemistry of Hazardous Materials

This 80-hour advance-level course is intended for individuals assigned to hazardous materials response teams, toxicologists, law enforcement, industrial hygienists, OEM staff and other emergency response personnel. The course presents an introduction to hazardous material chemistry, basics of fire, forces at play, combustion, hazard classes, supplemental materials and chemical transportation.

H-403 HazMat Chlorine Emergencies

This 16-hour advance-level course is geared toward emergency responders with hazmat, fire or rescue backgrounds. The course is for first responders who may witness or discover chlorine (Cl₂), releases. It covers releases from 100/150# Cylinders, 1-ton containers and railcars.

H-404 Clandestine Drug Labs

This 8-hour advance-level course is for emergency responders, law enforcement personnel, toxicologists, OEM staff, and other emergency response personnel. The course presents clandestine drug lab operations, PPE, scene documentation, case studies, emergency response roles and responsibilities.

H-405 Air Monitoring for Hazardous Material

This 24-hour advance-level course is for fire service, rescue, fire prevention, safety personnel, and personnel responsible for hazardous waste cleanup operations. The course presents the purpose for air monitoring, properties and toxicity of hazardous materials. In addition, the course will cover detection of toxic gases, operations of the Explosimeter⁴, oxygen meters, use of colorimetric tubes and laboratory instruments. Field exercises will be conducted with students using instruments and techniques learned during instruction.

⁴ Combustible gas indicators.

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.

All Hazardous Material courses offered by the TDEM are compliant with OSHA 29CFR 1910.120, EPA 40CFR Part 311, NFPA Standard 472 and qualify for TCLEOSE credit.

Rural County Host may be eligible for a waiver to the minimum number of students per class rule. **Rural County Residents** may be eligible for travel; lodging, and per diem reimbursement to attend HMEP funded classes. More information is available at www.preparingtexas.org.

All Students must be Public Employees or Volunteers: Students must be employed or used by a political subdivision, school district, special districts, interstate district, council of government, 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 complete information, requirements, course descriptions, prerequisites, go to Preparing Texas Website www.preparingtexas.org or contact the HMEP Program Manager for information at emdtechhaz@txdps.state.tx.us.

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 use for the following:

- Conducting Commodity Flow Studies,
- Emergency response drills and exercises,
- Enhancement of your Emergency Response Plans,
- Public Awareness, etc.

Contact the Program Manager at emdtechhaz@txdps.state.tx.us for more information on the grant and how it can be used.

FREE

Hazardous Material Training Courses FY 2010



Offered by

**Texas Division of Emergency
Management**

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