THE TEXAS A&M UNIVERSITY SYSTEM
INTRASYSTEM COOPERATION CONTRACT

THIS CONTRACT AND AGREEMENT is entered into by and between the members of The Texas A&M University System shown below as Contracting Parties.

I. CONTRACTING PARTIES:

Receiving Party: Texas Division of Emergency Management
(parties paying funds/receiving services)

Performing Party: Texas A&M Engineering Extension Service
(parties receiving funds/performing services)

II. STATEMENT OF SERVICES TO BE PERFORMED:

Provide personnel, equipment and supplies to conduct up to 100 hazardous materials emergency response training courses at various locations throughout the state as identified by the Texas Division of Emergency Management (TDEM) HazMat Preparedness Officer for emergency response to hazardous materials incidents. Courses are to be conducted for public sector employees. The responsibilities of both Parties are outlined below, with detailed descriptions provided in Attachment A, Statement of Work, and Attachment B, Courses and Course Descriptions, incorporated herein for all purposes. All references to “TXDPS” in Attachments A-C shall instead refer to “TDEM”.

Receiving Party General Responsibilities:

A. Conduct training needs assessment
B. Perform recruitment of students
C. Coordinate student enrollment with the Performing Party
D. Determine location & schedule of classes
E. Provide advertising of courses to target population
F. Conduct progress reviews
G. Conduct course reviews
H. Ensure completion of course evaluation by students

Performing Party General Responsibilities:

A. Perform recruitment of students
B. Determine appropriate class sizes and determine adequacy of training facilities
C. Provide class registration services
D. Deliver training that complies with all federal and state requirements.
E. Ensure completion of course evaluation by students
F. Provide certificates to students completing courses
G. Submit course and financial reports in a timely manner
H. Provide course revisions

III. DELIVERABLES (Published Training Materials)

If the Performing Party publishes training materials that have been prepared with Contract funds, the Performing Party must provide Receiving Party reprints of the publication at no cost to Receiving Party. The Performing Party must acknowledge any publication based on work supported by this Contract essentially as follows:
IV. COPYRIGHTABLE WORK

If the performance of this contract results in a book or other copyrightable work, the Performing Party or author may copyright the work, provided that the Performing Party or author provides Receiving Party a royalty-free, nonexclusive and irrevocable license to reproduce, publish, or otherwise use the work, and to authorize others to do so, for government purposes.

V. BASIS FOR CALCULATING REIMBURSABLE COSTS:

The basis for reimbursable costs is a fee based on the nearest practical estimate of the actual cost to provide hazardous materials training (Texas Government Code§ 771.007 (Vernon 2009)). Specific course fees are as set forth in Attachment C, incorporated herein for all purposes. The fee includes all materials, services, and expenses of the Performing Party for each class held under this Contract.

VI. CONTRACT AMOUNT:

The total amount of this Contract shall not exceed Nine Hundred Thousand Dollars ($900,000.00).

VII. PAYMENT FOR SERVICES:

Receiving Party shall pay for services received from appropriation items or accounts of Receiving Party from which like expenditures would normally be paid, based upon special vouchers drawn by Receiving Party, or through electronic transactions, payable to Performing Party.

Payments for service performed shall be billed within thirty (30) days of the completion of each course. Send request to the Receiving Party at the following address:

Texas Division of Emergency Management
Hazardous Materials Unit Supervisor
1033 La Posada Dr, Ste 250
Austin, TX 78752
Email: david.cella@tdem.texas.gov & donald.wilkerson@tdem.texas.gov
CC: Bradley.jacobs@tdem.texas.gov

Payments received by Performing Party shall be credited to its current appropriation item(s) or account(s) from which the expenditures of that character were originally made.

VIII. TERM OF CONTRACT:

This Contract is to begin October 1, 2019 and shall terminate September 30, 2020.

THE UNDERSIGNED CONTRACTING PARTIES do hereby certify that: (1) the services specified above are necessary and authorized for activities that are properly within the statutory functions and programs of the affected members of The Texas A&M University System, and (2) the services, materials, or equipment contracted for are not required by Section 21 of Article XVI of the Constitution of Texas to be supplied under contract given to the lowest responsible bidder.

Receiving Party further certifies that it has the authority to contract for the above services by authority granted in Texas Education Code, Section 88.001(6).

Performing Party further certifies that it has authority to perform the services contracted for by authority granted in Texas Education Code, Section 88.001(5).
The undersigned parties bind themselves to the faithful performance of this contract.

RECEIVING PARTY:

Authorized Signature

Chief

Title

10.1.2019

Date

PERFORMING PARTY:

Authorized Signature

R. Charles Todd

iateAgency

Director/CFO

9/26/19

Date
ATTACHMENT A

STATEMENT OF WORK

Training for Emergency Response to Hazardous Materials Incidents

Provide training courses for emergency response to hazardous material incidents at various sites determined by TXDPS and coordinated with TEEX/ESTI. There shall be no more than three (3) classes scheduled per weekend, with no more than two (2) being sixteen (16) hours or more in length. To the extent possible the courses are to be conducted in conjunction with area schools conducted by the TEEX/ESTI, on which no minimum student requirements apply.

Responsibilities of both Parties are described in detail below:

I. Receiving Agency (TXDPS) Responsibilities

A. Conduct training needs assessments throughout the course of the contract: TXDPS will evaluate the training needs of the target population within the State of Texas, and communicate those requirements to the TEEX/ESTI Program Coordinator.

B. Recruit students: In coordination with TEEX/ESTI, TXDPS will help recruit students; TXDPS will concentrate its recruitment on the following the target audiences:
   - Fire Departments
   - Elected officials
   - Emergency management coordinators
   - State and local law enforcement personnel
   - Public works personnel
   - Other public sector representatives not otherwise identified above

C. Coordinate student enrollment with TEEX/ESTI: TXDPS will provide information on available hazardous materials training to local governments, agencies, and organizations. TXDPS will receive requests for training from those entities and determine class requirements, ensure minimum number of students, and determine preferred dates and locations, and provide this information on an ongoing basis to the TEEX/ESTI Program Coordinator throughout the course of the contract. TXDPS will coordinate each class at least 15 days prior to the start date of that class, unless specific arrangements for a shorter period of advance notice are agreed upon with TEEX/ESTI.

D. Determine location and schedule classes: TXDPS will coordinate scheduling and locations of all classes, inclusive of any class being held at Brayton Fire Field. All classroom facilities used for instruction under this contract will be in compliance with the Americans with Disabilities Act (ADA).
E. Provide advertising of courses to target population: TXDPS will implement promotional plans and distribute promotional material for each course. All articles, pamphlets, brochures, signs and posters publicizing courses of instruction funded under this contract will clearly state:

- Courses are offered at no charge to eligible public sector participants.
- Enrollment is open to all members of the public sector including fire departments (paid and volunteer), public works, emergency medical services, law enforcement agencies, and other public sector members not previously identified.
- Funding for these courses is provided by the U.S. Department of Transportation (DOT) under the Hazardous Materials Emergency Preparedness (HMEP) grant program, which is administered in Texas by the Texas Division of Emergency Management.

F. Conduct progress reviews of courses to ensure performance: TEEX/ESTI and TXDPS will meet quarterly at a mutually agreeable location to review the progress and quality of course delivery under this contract. The purpose of this review is to (1) evaluate the overall performance of the contract, (2) identify shortfalls in program delivery, and (3) develop strategies for program improvement.

G. Conduct course reviews: TXDPS may conduct on-site course reviews (which may be "no-notice" reviews) to ensure compliance with contract requirements.

II. Performing Agency (TEEX/ESTI) Responsibilities

A. Recruit students: In coordination with TXDPS, TEEX/ESTI will recruit students at other TEEX activities, trade shows, conferences and exhibitions; TEEX/ESTI will concentrate its recruitment on the following target audiences:

- Fire service personnel
- Public works personnel
- Emergency medical service personnel

In support of recruiting, TXDPS will provide TEEX/ESTI with the following:

- TXDPS departmental logos, in color and black/white for printed publications
B. Determine appropriate class sizes (minimum/maximum numbers of students) and adequacy of training facilities: TEEX/ESTI will determine in advance the appropriate minimum/maximum number of students in order to efficiently and effectively deliver the required training. The minimums/maximums may vary from course to course. TEEX/ESTI will also coordinate with organizations/agencies who request that training be conducted in local facilities to ensure that those facilities are adequate for the training that will be conducted. TEEX/ESTI will also provide TXDPS with instructional facility requirements for each type of class to be offered.

C. Provide class registration services: Registration will occur within the Division's training portal, Preparingtexas.org. Acceptance of students for training will be coordinated between TEEX/ESTI and TXDPS.

D. Deliver training that complies with all federal and state requirements: TEEX/ESTI courses will use the training curriculum and course materials as specified by the U.S. Environmental Protection Agency (EPA) 165.15 course, the Occupational Safety and Health Administration (OSHA) "29" CFR 1910.120 and 1910.146, and the National Fire Protection Agency (NFPA) 471/472/1006 as the basis for this training. TEEX/ESTI will conduct training on any additional courses mutually agreed upon by TXDPS. TEEX/ESTI shall provide all non-consumable training equipment, instructor manuals, all student materials, course scenarios, maps and consumable course supplies. TEEX/ESTI will advise and provide TXDPS with one original copy of all student and instructor materials prior to use.

E. Ensure completion of course evaluations by students: TEEX/ESTI will ensure completion of course evaluation; TEEX/ESTI instructors will coordinate with the class host or coordinator a time and date (if applicable) for the host to facilitate the completion of course evaluations by students.

F. Provide certificates to students completing courses:

(1) TEEX will provide all Pro Board certificates to participants passing both written and skills exams.

(2) PreparingTexas.Org (PTO) will generate all certificates of completion.

G. Submit required course and financial reports in a timely manner: The TEEX/ESTI Program Coordinator will report the following:

1. Course Instructor's report
2. TEEX/TDEM Student Registration Form for each student
2. No later than ten (10) business days following the end of each month TEEX/ESTI will submit an Invoice (draw-down report) for the previous months’ services that will contain the following information:

- a list of all classes conducted during the previous month
- class date(s)
- the location of each class
- the number of students in each class
- the costs associated with each class

3. At the end of each month and at end of the Federal Fiscal Year TEEX/ESTI will assist TXDPS - TDEM Preparedness Section in preparing a Monthly/Annual Report by providing course information if requested.

H. Provide course revisions; TEEX will address in writing any concerns raised by TXDPS from course evaluations, each concern will have a proposed solution and completion date.

III. Additional Program Guidelines

A. Safety: Participating students should wear normal, comfortable work clothing, including long pants and short/long sleeve shirts. No shorts, tank tops, sleeveless shirts, sandals will be allowed. Student’s facial hair must meet OSHA and NFPA requirements for wearing self-contained breathing apparatus (SCBA) and/or supplied air respirators (SAR).

B. Course cancellation: If a course must be cancelled, it must be cancelled no less than five (5) working days prior to the start date of that course. Notification must be in writing by TXDPS and transmitted to the TEEX/ESTI Program Manager via email. If this requirement is not met, TEEX/ESTI may bill TXDPS for its travel expenses incurred according to state comptroller policy (website) and reasonable instructor(s) wages to a maximum of two (2) days.

Due to established minimum student numbers per course, TEEX must notify and receive approval from TXDPS before conducting or canceling a course that does not meet the minimum number of student requirement.

C. Attendance policy: On the first day of each scheduled course, students will be required to complete a Student Registration Form, that document will be used by TXDPS for
tracking training hours, student data, and to comply with Hazardous Material Emergency Preparedness (HMEP) Grant requirements.

D. TCOLE credit: Students eligible for continuing education credit under the Texas Commission on Law Enforcement Standards and Education (TCOLE) shall be informed that they will need to check the law enforcement option on their student registration form. All TCOLE credit will be granted automatically through the TEEX system.

E. Instructor Biographies: “TEEX/ESTI will provide applicable instructor biographies within two (2) weeks of contract approval. In addition, TEEX/ESTI will forward biographies of new instructors that join the organization and contract, adjunct, or any other instructor within two (2) weeks of identifying their role with this contract and prior to their use.”

F. Course Descriptions: TEEX/ESTI has provided detailed course descriptions offered under this contract, attached hereto and incorporated as Attachment C. (Additional courses may be added by mutual consent of both parties).
Attachment B
COURSES AND COURSE DESCRIPTIONS

TEEX HazMat Course Descriptions

H-100 HazMat – Awareness
Hours of instruction: 8 hours (1 day) (Classroom)
Number of students: 12 minimum / Classroom Capacity maximum
Prerequisites: None
Instructor staff: One (1) instructor
Host facility: The host facility will provide a classroom location of suitable size for training.

Who should attend: Personnel who could encounter an emergency involving hazardous materials/weapons of mass destruction (WMD), and who are expected to recognize the presence of the HazMat/WMD, protect themselves, call for trained personnel, and secure the area.

Course content: This course meets the NFPA 472 Standard for Competence of Responders to HazMat/WMD Incidents, Chapter 4 and 29 CFR 1910.120 (q)(6)(v) for Awareness level personnel.
- Analyze the incident
- Detect the presence of hazardous Materials/WMD
- Survey a hazardous material/WMD incident from a safe location
- Collect hazard information from the content edition of the Department of Transportation (DOT) Emergency Response Guide (ERG)
- Implement the response
- Initiate protective actions

H-101 Pipeline Emergencies - Awareness
Hours of instruction: 8 Hours (1 day) (classroom)
Number of students: 12 minimum / Classroom Capacity maximum
Prerequisites: None
Instructor staff: One (1) instructor

Who should attend: Public employees who are likely to witness or discover releases from the many pipelines that cross their jurisdiction. This includes fire, rescue, Emergency Medical Service (EMS), law enforcement, Incident Commander, and other local/state/federal officials.

Course content: This course is intended to cover through lecture, regulatory, pipeline safety and prevention subject matter. In addition to these areas the class participants will complete exercises using the ERG and product MSDS. Upon course completion participants will be able to objectively demonstrate competency in the following areas:
- Describe the basic types and categories of pipeline systems, including crude oil, liquid and natural gas pipelines.
- List and describe the primary federal agencies that regulate pipeline operations in the United States.
COURSES AND COURSE DESCRIPTIONS

- List and describe the primary state agencies that regulate pipeline operations in the United States.
- List and describe the primary federal and state agencies that investigate significant pipeline accidents in the United States.
- List and describe the primary industry and trade associations that develop pipeline standards in the United States.
- List the primary causes of pipeline incidents.
- Describe at least three industry and governmental programs to prevent pipeline incidents.
- Use the ERG to locate emergency response information.
- Read, interpret, and gather crucial data from MSDSs needed for a pipeline response.

H-200 HazMat First Responder - Operations

**Hours of instruction:** 16 hours (2 days) (classroom /field exercises)

**Number of students:** 12 minimum/30 maximum

**Prerequisites:** Proof of completion of training for all competencies at the Awareness level (NFPA 472 Chapter 4)

**Instructor staff:** One (1) instructor and one (1) technician

**Host facility:** The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

**Who should attend:** Personnel who respond to emergencies involving HazMat/WMD for the purpose of protecting nearby persons, the environment, or property from the effects of the release.

**Course content:** This course meets or exceeds the NFPA 472 Chapter 5 Core Competencies for Operational Level Responders and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities of Responders to HazMat/WMD incidents and 29 CFR 1910.120 (q)(6)(v) for operations level personnel.

- Analyze the incident
- Detect the presence of HazMat/WMD
- Determine scope of the problem
- Determine potential outcomes
- Plan a response
- Capabilities of operations level personnel
- Personal protective equipment (PPE)/identifying/donning/doffing/working in/hazards
- Implement the response
- Establish control zones/emergency decontamination /communications
- Implement protective actions
- Perform operations level tasks
- Evaluate progress

H-201 Pipeline Emergencies - Operations

**Hours of instruction:** 16 Hours (2 days) (classroom/table top exercises)

**Number of students:** 12 minimum I 30 maximum
COURSES AND COURSE DESCRIPTIONS

Prerequisites: None. Highly recommend Pipeline Awareness.

Instructor staff: One (1) instructor

Who should attend: Public Employees who are likely to witness or discover releases from the many pipelines that cross their jurisdiction. This includes fire, rescue, EMS, law enforcement, Incident Commanders, and other local/state/federal officials. This course is intended to cover both gas and liquid pipeline operations including terminology, pipeline equipment, pipeline operations, and unique hazards of pipeline transportation.

Course content: Training through lecture, table top exercise, and the development of Emergency Action Plans (EAP). Participant will be able to objectively demonstrate competency in the following areas:

- Identify a minimum of three (3) different types of pipeline markers that may be found along a pipeline corridor.
- Identify the key information located on a pipeline marker.
- Describe the purpose of a pipeline right-of-way.
- List three clues that may indicate the presence of an underground pipeline right-of-way.
- Identify and describe the basic design and construction features of a pipeline system.
- Describe the common types of refined petroleum products transported in pipelines.
- Describe the basic physical and chemical properties associated with liquid gases and explain their significance in the risk assessment process for an incident involving a liquid products pipeline.
- Describe the key physical and chemical properties for specific petroleum products transported in liquid pipelines.
- Describe the basic principles of liquid transmission pipeline operations, including how a liquid pipeline can carry different products.
- Identify the types of aboveground petroleum storage tanks commonly found at marketing and distribution terminals.
- List three (3) safety features found at cargo tank truck loading racks.
- List at least three (3) signs of indicators of a leaking liquid pipeline.
- Describe the basic physical and chemical properties associated with natural gases and explain their significance in the risk assessment process for an incident involving a natural gas pipeline.
- List the basic byproducts of complete and incomplete combustion of natural gas.
- Describe the two (2) primary reasons for odorizing natural gas.
- Describe the basic principles of operation of natural gas gathering systems, processing treatment facilities, and transmission pipelines.
- Describe the purpose of compressor stations and gate settings/main line valves, given a natural gas transmission pipeline system.
- Describe options for underground and aboveground storage of natural gas.
- Describe the components of a natural gas distribution system and the function/purpose of each. Identify and describe basic pipeline system equipment.
- Identify and describe the critical safety and tactical considerations to be evaluated and implemented for an unknown source of a natural gas leak in a residential area, for a gas distribution leak in a commercial area, and for a gas distribution leak in an industrial area.
COURSES AND COURSE DESCRIPTIONS

H-202 Pipeline Emergencies - Awareness/Operations
Hours of instruction: 24 Hours (3 days) (classroom/table top exercises)
Number of students: 12 minimum I Classroom Capacity maximum

Prerequisites: None
Instructor staff: One (1) instructor

Who should attend: Public Employees who are likely to witness or discover releases from the many pipelines that cross their jurisdiction. This includes fire, rescue, EMS, law enforcement, Incident Commanders, and other local/state/federal officials. This course is intended to cover both gas and liquid pipeline operations including terminology, pipeline equipment, pipeline operations, and unique hazards of pipeline transportation.

Course content: Training through lecture, table top exercise and the development of EAPs. Participant will be able to objectively demonstrate competencies in H-101 Pipeline Emergencies - Awareness and H-201 Pipeline Emergencies - Operations course descriptions.

H-203 Confined Space Safety
Hours of instruction: 16 Hours (2 days) (classroom/field exercises)
Number of students: 10 minimum I 20 maximum
Prerequisites: None
Instructor staff: One (1) instructor

Who should attend: Individuals, whose responsibilities include identifying permitted confined spaces, recognize and evaluate hazards, select the PPE required for safe entry. Apply techniques of isolation and control of energy sources, and issue entry permits for confined spaces. This course is geared towards emergency responders with HazMat, fire and rescue backgrounds.

Course content: Training through lecture and field exercise, be able to objectively demonstrate competency in the following areas:

- Identify permit -required confined spaces - OSHA 29 CFR 1910.146
- An understanding of confined spaces and the hazards associated
- An understanding and utilization of atmospheric monitoring and use of ventilation practices for a confined space
- Control of hazardous energy sources
- Selection and use of PPE's - field exercises
- Fall protection and non-entry retrieval -field exercises
- Confined space entry -field exercises

H-204 HazMat First Responder - Awareness/Operations
Hours of instruction: 24 Hours three - 8 hr. days or two - 12 hour days (classroom/field exercises)
COURSES AND COURSE DESCRIPTIONS

Number of students: 12 minimum I 30 maximum
Prerequisites: None
Instructor staff: One (1) instructor and one (1) technician

Host facility: The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

Who should attend: Personnel who could encounter an emergency involving HazMat/WMD and who are expected to recognize the presence of the Hazmat/WMD, protect themselves, call for trained personnel, and secure the area and personnel who respond to emergencies involving HazMat/WMD for the purpose of protecting nearby persons, the environment, or properly from the effects of the release.

Course content: This course meets or exceeds the NFPA 472 Chapter 4 Competencies for Awareness Level Personnel, Chapter 5 Core Competencies for Operations Level Responders, and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities, and 19 CFR 1910.120 (q)(6)(i) and (q)(6)(ii) for Awareness and Operations level personnel.

- Analyze the incident
- Detect the presence of HazMat/WMD
- Survey a hazardous material/WMD incident from a safe location
- Initiate protective actions
- Initiate the notification process
- Collect hazard information from the content edition of the DOT ERG
- Determine scope of the problem
- Determine potential outcomes
- Capabilities of operations level personnel
- PPE/Identifying/donning/doffing/working in/hazards
- Implement the response
- Establish control zones/emergency decontamination/communications
- Implement protective actions
- Perform operations level tasks
- Evaluate progress
- Communicate status

H-301 HazMat Emergency Response Technician

Hours of instruction: 40 hours (5 days) (classroom/field exercises)
Number of students: 12 minimum I 30 maximum
Prerequisites: None
Instructor staff: One (1) instructor and one (1) technician
Host facility: The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

Who should attend: Personnel who could encounter an emergency involving HazMat/WMD, who are expected to recognize the presence of the HazMat/WMD, protect themselves, call for trained personnel, and secure the area and personnel who respond to emergencies involving HazMat/WMD for the purpose
COURSES AND COURSE DESCRIPTIONS

of protecting nearby persons, the environment, or property from the effects of the release and personnel who respond to emergencies involving HazMat/WMD for the purpose of analyzing the incident, selecting appropriate PPE, decontamination procedures, and implementing action options to mitigate the incident.

Course content: This course meets or exceeds the NFPA 472 Chapter 4 Competencies for Awareness Level Personnel, Chapter 5 Core Competencies for Operations Level Responders, and Chapter 7 Competencies for Hazardous Materials Technician and 19 CFR 1910.120 (q)(6)(i), (q)(6)(ii) and (q)(6)(iii) for Awareness, Operations, and Technician level personnel.

Analyze the incident awareness and operations
- Detect the presence of HazMat/WMD
- Survey a HazMat/WMD incident from a safe location
- Initiate protective actions
- Initiate the notification process
- Collect hazard information from the content edition of the DOT ERG
- Determine scope of the problem
- Determine potential outcomes
- Plan response operations
- Capabilities of operations level personnel
- PPE/identifying/donning/doffing/working in/hazards
- Implement the response operations
- Establish control zones/emergency decontamination/communications
- Implement protective actions
- Perform operations level tasks
- Evaluate progress
- Communicate status

Analyze the incident technician
- Collect and interpret hazard and response information
- Determine scope of the problem
- Describe type and extent of damage to containers
- Predict the behavior of released materials and containers
- Estimate the size of endangered area

Plan a response technician
- Describe response objectives and options
- Select PPE for action options
- Select technical decontamination process
- Develop a site safety plan

Implement the response technician
- Perform duties of HazMat position within ICS
- Don, doff, and work in technician level PPE
- Perform offensive control options
COURSES AND COURSE DESCRIPTIONS

- Perform decontamination functions
- Evaluate effectiveness of control functions
- Evaluate effectiveness of decontamination
- Terminating the incident technician
- Incident debriefs and critique
- Reports and documentation

H-302 HazMat Refresher Training
Hours of instruction: 8 Hours (1 day) (classroom/field exercises)
Number of students: 12 minimum | 30 maximum
Prerequisite: Prior Certification/Training in HazMat at the Operations/Technician level
Instructional staff: One (1) instructor and one (1) technician
Host facility: The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

Who should attend: Those employees who are trained in accordance with 19 CPR 1910.120 (q)(6) shall receive annual refresher training of sufficient content and duration to maintain their competencies, or shall demonstrate competency in those areas at least yearly. Personnel trained to the NFPA 472 Operations, Technician, or Incident Command level.

Course content: This course is designed to meet or exceed 19 CFR 1910.120 (q) (8) (i) annual refresher training requirements. This course will involve both classroom and field activities.

H-303 Pipeline Emergencies - Technician
Hours of instruction: 40 Hours (5 days) (classroom/field exercises)
Number of students: 12 minimum | 30 maximum
Prerequisites: None
Instructor staff: One (1) instructor and one (1) technician

Who should attend: Public employees who are likely to witness or discover releases from the many pipelines that cross their jurisdiction. This includes fire, rescue, EMS, law enforcement, Incident Commanders, and other local/state/federal 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 ERG and product MSDS.

Course content: Days 1-3 cover the materials in the H-101 Pipeline Emergencies - Awareness and H-201 Pipeline Emergencies - Operations level training. Days 4-5 cover response to pipeline emergencies. Training will be conducted through lecture and field scenarios. Participants will be able to objectively demonstrate competency in the following areas:

- Describe the concepts, principles, and components of the NIMS and explain the requirements for NIMS compliance.
- Describe the ICS and its application as a tool for safely managing pipeline incidents.
COURSES AND COURSE DESCRIPTIONS

- Describe the size-up process for determining the operational modes, strategic goals, and tactical objectives at a pipeline incident.
- Identify and describe the key considerations in developing an incident action plan.
- Describe Noll and Hildebrand's Eight Step Process© and its application as a tactical incident management tool for managing on-scene operations at a pipeline incident.
- Describe the critical success factors in managing the initial response to a pipeline incident.
- Describe the general hazard and risk issues you must evaluate when responding to pipeline emergencies.
- Identify and describe the key considerations to evaluate in developing an incident action plan.
- Identify and describe the critical safety and tactical considerations to implement during incidents involving natural gas pipelines.
- Identify and describe the critical safety and tactical considerations to implement during incidents involving liquid pipelines.
- Identify and describe the critical safety and tactical considerations to implement during pipeline incidents requiring special operations.
- Plan the appropriate response to a given pipeline emergency.
- Demonstrate offensive measures to control a pipeline emergency and stabilize the scene.

Training Location: This course will only be taught at the Brayton Fire Field.

H-304 NFPA Confined Space Rescue (Non-Certification)

Hours of instruction: 32 Hours (4 Days) (classroom /field exercises)
Number of students: 12 minimum / 20 maximum
Prerequisites: None
Instructor staff: One (1) instructor and one (1) technician
Host facility: Needs to provide training areas to support confined space field activities.

Who should attend: Individuals who are likely to be involved in or serve on an Emergency Response Rescue Team or in a support capacity.

Course content: This class teaches how to safely and efficiently perform confined space rescues in the industrial and municipal environments through classroom presentations and field exercises. The curriculum meets and exceeds requirements for training in accordance with NFPA 1006 and with OSHA 29 Code of Federal Regulations 1910.146 Permit Required Confined Spaces. Participants will be able to objectively demonstrate competency in the following areas:

- Introduction to rescue operations philosophy and objectives: Course safety rules and considerations; Life safety priorities; Command structure
- Medical considerations and care in the rescue environment: Patient assessment on the rescue scene; Treatment considerations and patient packaging; Basket stretcher operations; Incorporating spinal immobilization; and Scene specific equipment
- Rescue rope and equipment (NFPA standard s): Identification; Capacities and ratings; and Applicable standards
COURSES AND COURSE DESCRIPTIONS

- Knots, bends, and hitches (be able to tie and identify knots): Figure 8 knots; Bowline and its applications; Clove hitch; Square knot; Overhand knot; Water knot (webbing); Butterfly knot; Munter hitch; Double fisherman’s knot; Prussik hitch
- Anchor system construction and placement: Evaluating the suitability of potential anchors Multi-point and back-up anchor systems
- Belay system design and operations: Safety considerations and Belay technique/methodology
- Lowering system design and operation: Safety considerations and Fixed brake lowering systems

- Hauling system design and operation: Safety considerations; Mechanical advantage theory; Vertical z-rig; Block and tackle; and Horizontal z-rig
- Confined space considerations and operations (OSHA 29 CFR 1910 146): Personnel safety; Confined space related hazards; Testing and monitoring; Ventilation; Patient care and evacuation; and Decontamination

PPE Requirements: All participants must bring the following items with them to class - hard hat, safety glasses, leather gloves, and safety-toe footwear.

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

Hours of instruction: 24 Hours (3 days) (classroom/field exercises)
Number of students: 12 minimum | 24 maximum
Prerequisite: Current Technician or Operations Level Training/Certification is highly recommended.
Instructional staff: Two (2) instructors

Who should attend: 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.

Course content: This 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 waterborne operations. Practical knowledge is gained through multiple field training and scenario based deployments drills, and multi-phased table top exercises. Participants will be able to objectively demonstrate competency in the following areas:

- Initial response considerations
- Theory and practical deployment of barrier boom
- Theory and practical deployment of liquid recovery and storage devices
- Tactical application of NIMS ICS for oil spill response
- Workboat familiarization and operations
- Case studies

NOTE: Due to strenuous field activities, a current physical examination is recommended.
COURSES AND COURSE DESCRIPTIONS

H-306 NFPA 1006 Trench Rescue (Non-Certification)

Hours of instruction: 36 Hours (4 Days) (classroom/field exercises)
Number of students: 12 minimum and 20 maximum
Prerequisite: None
Instructor staff: One (1) instructor and one (1) technician
Host facility: The host facility will need to provide in addition to an outdoor training location, a backhoe and operator to dig trenches for training. The backhoe and operator will need to available throughout the week to make changes to trench configuration.

Who should attend: Municipal Firefighters and Law Enforcement Personnel.

Course content: This course is designed to meet requirements for trench rescue based on NFPA 1006.

Course description: After completing this course participants will have the ability to evaluate, manage, and perform a trench rescue in accordance with NFPA to include: soil analysis and mechanics, soil classifications, trench dynamics, hydraulic/pneumatic shoring, excavation safety per OSHA 29 CFR 1926 Subpart P, Evacuations, and ICS for trench rescue.

PPE requirements: All participants must bring the following items with them to class - hard hat, safety glasses, leather gloves, and safety-toe footwear.

H-307 NFPA 1072 Product Control

Hours of instruction: 8 Hours (1 day) (classroom/field exercises)
Number of students: 12 minimum and 30 maximum
Prerequisites: Proof of completion of training for all competencies at the Operations level NFPA 1072 Chapter 5 Core Competencies for Operations Level Responders and Chapter 6.2 Competencies for Operational Level Responder's Assigned Mission Specific Responsibilities.
Instructor staff: One (1) instructor and one (1) technician
Host facility: The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

Who should attend: Personnel trained to the operations level who is assigned to implement product control measures at a HazMat/WMD incident.

Course content: This course meets or exceeds the NFPA 1072 Chapter 6.6 Mission Specific Competencies Product Control Standard for competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents for Operations level personnel. Participants will be able to objectively demonstrate competency in the following areas:

- Plan the response
- Describe control options for HazMat incidents
- Describe control options for flammable liquid and flammable gas incidents
- Implement the response
COURSES AND COURSE DESCRIPTIONS

**H-401 HazMat Incident Command System**

*Hours of instruction:* 16 Hours (2 days) (classroom)

*Number of students:* 12 minimum | 30 maximum

*Prerequisites:* Proof of completion of training for all competencies at the Operations Level (NFPA 472 Chapter 5 Core Competencies for Operational Level Responders)

*Instructor Staff:* One (1) instructor

*Host facility:* The host facility will also provide a classroom location of suitable size for lecture.

**Who should attend:** Personnel who respond to emergencies involving HazMat/WMD as an incident commander and will be responsible for all incident activities, including the development of strategies and tactics and the ordering and release of resources.

**Course content:** This course meets or exceeds the NFPA 472 Chapter 8 for Competencies for Incident Commanders and 29 CFR 1910.120 (q)(6)(v) for Hazardous Materials Specialist. Participants will be able to objectively demonstrate competency in the following areas:

- Analyze the incident
- Plan a response
- Approve response objectives and options
- Approve PPE for action options
- Develop an Incident Action Plan
- Develop a site safety plan
- Implement the response
- Implement Incident Command System (ICS)
- Direct resources
- Information transfer
- Evaluate effectiveness of control functions
- Evaluate effectiveness of decontamination
- Terminating the incident
- Incident debrief and critique
- Reports and documentation
- Transfer of Command

**H-402 Chemistry for HazMat**

*Hours of instruction:* 80 Hours (10 Days) (Monday -Friday for two weeks) (classroom)

*Number of students:* 10 minimum | 15 maximum

*Prerequisites:* None

*Instructor staff:* Two (2) instructors

*Host facility:* The host facility will provide a classroom location of suitable size for training.
COURSES AND COURSE DESCRIPTIONS

Who should attend: Individuals who are likely to be involved in or serve on an Emergency Response Rescue Team, Law Enforcement Personnel, Toxicologists, Industrial Hygienists, OEM staff, and other emergency response related fields.

Course content:
- Chemistry basics
- The periodic table and atomic structure
- Salts
- Inorganic salts
- Organic chemistry-introduction to the hydrocarbon family
- Hydrocarbon derivatives
- Physical and chemical properties
- Toxicity of chemical families

H-405 Air Monitoring for Hazardous Materials

Hours of instruction: 16 hours (2 days) (classroom I field exercises)
Number of students: 12 minimum I 30 maximum
Prerequisites: Proof of completion of training for all competencies at the Operations level NFPA 472 Chapter 5 Core Competencies for Operational Level Responders and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities.
Instructor staff: One (1) instructor and one (1) technician
Host Facility: The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

Who should attend: Personnel trained to the operations level who are assigned to implement air monitoring and sampling operations at a HazMat/WMD incident.

Course Content: This course meets or exceeds the NFPA 472 Chapter 6.7 Mission Specific Competencies Air Monitoring and Sampling standard for competence of responders to HazMat/WMD incidents for operations level personnel. Participants will be able to objectively demonstrate competency in the following areas:
- Plan the response
- Plan air monitoring and sampling activities
- Describe air monitoring options at the operations level
- Implement the response
- Implement air monitoring options and sampling activities

H-500 HazMat Technician TCFP Certification

Hours of instruction: 80 Hours (5 days) (Monday - Friday for two weeks) (classroom I field exercises)
Number of students: 12 minimum I 30 maximum
Prerequisite: Proof of completion of training for all competencies at the NFPA 472 Chapter 4 Competencies for Awareness Level Personnel , Chapter 5 Core Competencies for Operations Level Responders, 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities, and 6.6 Mission Specific Competencies Product Control. Must be a certified Commission Fire Fighter to complete certification as a Commission HazMat Technician.
COURSES AND COURSE DESCRIPTIONS

Instructional staff: One (1) course coordinator, one (1) lead instructor and five (5) Commission approved skill evaluators provided by host agency, two (2) instructors provided by TEEX.

Host facility: The host facility must be a pre-approved site by the Texas Commission on Fire Protection (TCFP). This is required in order for the commission to recognize the class and allow the students to sit for the TCFP certification test. After completion of the class, the class host/participants will need to contact TCFP to schedule written testing. The host facility will provide a secure location with a water source for outdoor activities and a classroom location of suitable size for lecture.

Who should attend: TCFP Certified Fire Fighters interested in receiving HazMat Technician certification from the Texas Fire Commission.

Course content: This course is designed to provide the student with the basic skill set to satisfy the minimum requirements of the Texas Commission on Fire Protection’s requirements for a State Certified HazMat Technician. All skills testing will be conducted during the second week of training.

H-501 NFPA 1072 HazMat Technician (Pro-Board Certification)

Hours of instruction: 40 Hours (classroom/field exercises)
Number of students: 12 minimum I 30 maximum

Prerequisites: Proof of completion of training for all competencies at the Operations Level (NFPA 1072 Chapter 5 Core Competencies for Operations Level Responders)

Instructor staff: One (1) instructor and one (1) technician

Host Facility: The host facility will need to secure and provide a written test proctor prior to the class. The host facility will also provide a secure location with a water source for outdoor activities and skills testing and a classroom location of suitable size for testing and lecture.

Who should attend: Personnel who respond to emergencies involving HazMat/WMD for the purpose of analyzing the incident, selecting appropriate PPE, decontamination procedures, and implementing action options to mitigate the incident.

Course content: This course meets or exceeds the NFPA 1072 Chapter 7 Competencies for Hazardous Materials Technician and 19 CFR 1910.120 (q)(6)(iii) for Technician level personnel. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 7 Competencies for Hazardous Materials Technician. Participants will be able to objectively demonstrate competency in the following areas: Analyze the incident

- Collect and interpret hazard and response information
- Determine scope of the problem
- Describe type and extent of damage to containers
- Predict the behavior of released materials and containers
- Estimate the size of endangered area
- Plan a response
- Describe response objectives and options
- Select PPE for action options
- Select technical decontamination process
- Develop a site safety plan
COURSES AND COURSE DESCRIPTIONS

- Implement the response
- Perform duties of HazMat position within ICS
- Don, doff, and work in Technician level PPE
- Perform offensive control options
- Perform decontamination functions
- Evaluate effectiveness of control functions
- Evaluate effectiveness of decontamination
- Terminating the incident
- Incident debrief and critique
- Reports and documentation

H-502 NFPA 1072 HazMat Incident Command System (Pro-Board Certification)

- **Hours of instruction:** 16 Hours (2 days) (classroom)
- **Number of students:** 12 minimum I 30 maximum

**Prerequisites:** Proof of completion of training for all competencies at the Operations Level (NFPA 1072 Chapter 5 Core Competencies for Operations Level Responders)

- **Instructor staff:** One (1) instructor
- **Host facility:** The host facility will also provide a classroom location of suitable size for lecture and testing.

- **Who should attend:** Personnel who respond to emergencies involving HazMat/WMD as an incident commander and will be responsible for all incident activities, including the development of strategies and tactics and the ordering and release of resources.

- **Course content:** This course meets or exceeds the NFPA1072 Chapter 8 for Competencies for Incident Commanders and 29 CFR 1910.120 (q)(6)(v) for Incident Command level personnel. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 5 Core Competencies for Operations Level Responders, and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities. Participants will be able to objectively demonstrate competency in the following areas:
  - Analyze the incident
  - Plan a response
  - Approve response objectives and options
  - Approve PPE for action options
  - Develop an IAP
  - Develop a site safety plan
  - Implement the response
  - Implement the Incident Command System (ICS)
  - Direct resources
  - Information transfer
  - Evaluate effectiveness of control functions
  - Evaluate effectiveness of decontamination
  - Terminating the incident
  - Incident debrief and critique
COURSES AND COURSE DESCRIPTIONS

- Reports and documentation
- Transfer of command

H-503 NFPA 1006 2013 Edition Confined Space Rescue Levels I & II (Pro-Board Certification)

Hours of instruction: 40 Hours (5 Days) (classroom/field exercises)
Number of students: 10 minimum | 5 maximum
Prerequisite: Recommend that prior to class start date that all students review NFPA 1006, Chapter 5. Due to the nature of the training, a physical examination and fit test is highly recommended prior to enrolling in this course.
Instructional staff: One (1) instructor (1) skill evaluator
Host Facility: The host facility will need to secure and provide a written test proctor (normally from a local university or community college) prior to the class. The host facility will also provide a testing/classroom location of suitable size for testing and lecture as well as an outdoor training location.

Who should attend: Municipal Firefighters & Law Enforcement Personnel

Course content: This course is designed to provide you with the skills and knowledge required for certification to Chapter 7, "Confined Space Rescue," as described in National Fire Protection Association (NFPA) 1006, Standard for Technical Rescuer Professional Qualifications (2013 edition). The course covers confined space rescue operations, utilizing appropriate equipment, methodologies, protocols, and patient and resource management techniques. Participants who successfully complete the course and pass the required written and skills test receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

Course description: After completion of the course students will take written and skills test on Chapter 5 Core Competencies for Operations Level Responders and Chapter 9 Competencies for Specialist Employees per NFPA 1006, job performance requirements. Upon successful completion of this course, you will be awarded 3.6 CEU certified through the International Association for Continuing Education and Training.

PPE Requirements: All participants must bring the following items with them to class - hardhat, safety glasses, leather gloves, and safety-toe footwear.

Certification Requirements: Participants must pass Trench Rescue Level I to receive certifications For Trench Rescue Level II.

H-504 NFPA 1006 2013 Edition Trench Rescue Levels I & II (Pro-Board Certification)

Hours of instruction: 40 Hours (5 Days) (classroom/field exercises)
Number of students: 12 minimum | 20 maximum
Prerequisite: In order to received "Certification" you must provide proof to course host two (2) weeks prior to class start date that which you are certified to NFPA1006 Rope Rescue Level I or Confined Space Rescue Level I by Pro Board or International Fire Service Accreditation Congress (IFSAC). You can provide
COURSES AND COURSE DESCRIPTIONS

either a certificate, or a transcript from an accredited agency that lists successful completion of these requirements. It is recommended that you also provide this proof to the instructor on the first day of class. Due to the nature of the training, a physical examination and fit test is highly recommended prior to enrolling in this course.

Instructor staff: One (1) instructor and one (1) skill evaluator

Host facility: The host facility must provide test proctor (normally from a local university or community college) prior to the class, in addition to a suitable testing/classroom. In addition, the host will need to provide a suitable outdoor training location, near the classroom, where trenches can be dug for training and testing. A backhoe and operator to dig trenches must be available throughout the week to make changes to trench configuration.

Who should attend: Municipal Firefighters and Law Enforcement Personnel.

Course content: This course is designed to meet certification requirements for Trench Rescue Technicians based on NFPA 1006, 2013 edition.

Course description: After completing this course students are eligible to take the written and skills test on Chapter 8 per NFPA 1006. Course participants will have the ability to evaluate, manage, and perform a trench rescue in accordance with NFPA 1006. Topics to include: soil analysis mechanics, classifications, trench dynamics, hydraulic/pneumatic shoring, excavation safety per OSHA 29 CFR 1926 Subpart P, trench rescue operations, ICS for trench rescue.

PPE requirements: All participants must bring the following items with them to class - hard hat, safety glasses, leather gloves, and safety-toe footwear. Participants must pass Trench Rescue Level I to receive certifications For Trench Rescue Level II.”

Certification Requirements: For national Pro Board certification, the following are the minimum certification requirements as defined by the NFPA standards and TEEX/ESTI:

- Rope Rescue Level I certification, NFPA 1006, Standard For Technical Rescuer Professional Qualifications, Chapter 6

Or

- Confined Space Rescue Level I certification, NFPA 1006 Standard For Technical Rescuer Professional Qualifications, Chapter 7

H-505 NFPA 1072 Product Control (Pro-Board Certification)

Hours of instruction: 12 Hours (1 ½ days) (classroom/field exercises)

Number of students: 12 minimum I 30 maximum

Prerequisites: Proof of completion of training for all competencies at the Operations level NFPA 1072 Chapter 5 Core Competencies for Operations Level Responders, and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities

Instructor staff: One (1) instructor and one (1) technician
COURSES AND COURSE DESCRIPTIONS

Host facility: The host facility will need to secure and provide a written test proctor prior to the class. The host facility will also provide a secure location with a water source for outdoor activities and skills testing and a classroom location of suitable size for testing and lecture.

Who should attend: Personnel trained to the operations level who is assigned to implement product control measures at a HazMat/WMD incident.

Course content: This course meets or exceeds the NFPA 1072 Chapter 6.6 Mission Specific Competencies Product Control Standard for competence of Responders to HazMat/WMD incidents for Operations level personnel. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 6.6 Product Control Competencies for Operations Level Personnel. Participants will be able to objectively demonstrate competency in the following areas:

- Plan the response
- Describe control options for HazMat incidents
- Describe control options for flammable liquid and flammable gas incidents
- Implement the response

H-506 NFPA 472 HazMat Rail Specialist (Pro-Board Certification)

Hours of instruction: 20 Hours (2 ½ days) (classroom/field exercises)

Number of students: 12 minimum | 16 maximum

Prerequisites: Proof of completion of training for all competencies at the Technician Level (NFPA 472 Chapter 7 Technician Competencies)

Instructor staff: One (1) instructors and one (1) technician

Host facility: This course will only be conducted at the Brayton Fire Training Field

Who should attend: Technician level personnel expected to respond to incidents and provide technical support, oversight for product removal and moving of damaged tank cars, and act as a liaison between outside resources and technicians.

Course content: This course meets or exceeds the NFPA 472 Chapter 12 for competence of Responders to HazMat/WMD incidents for Technicians with a Tank Car Specialty. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 12 Competencies for Technicians with a Tank Car Specialty. Participants will be able to objectively demonstrate competency in the following areas:

- Tank car construction
- Damage assessment
- Transfer techniques
- Leak containment
- Flaring
- Fitting repair
- Safety
COURSES AND COURSE DESCRIPTIONS

H-507 NFPA 472 HazMat Highway Specialist (Pro-Board Certification) Hours of instruction: 20 hours (2 ½ days) (classroom I field exercises)

Number of students: 12 minimum /16 maximum

Prerequisites: Proof of completion of training for all competencies at the Technician Level (NFPA 472 Chapter 7 Competencies for Hazardous Materials Technician)

Instructor staff: One (1) instructor and one (1) technician

Host facility: This course will only be conducted at the Brayton Fire Training Field

Who should attend: Technician level personnel expected to respond to incidents and provide technical support, oversight for product removal and moving of damaged cargo tanks, and act as a liaison between outside resources and technicians.

Course content: This course meets or exceeds the NFPA 472 Chapter 13 for Competence of Responders to HazMat/WMD incidents for Technicians with a Cargo Tank Specialty. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 13 competencies for Technicians with a Cargo Tank Specialty.

- Cargo tank construction
- Damage assessment
- Transfer techniques
- Leak containment
- Flaring
- Fitting repair
- Safety

H-508 NFPA 472 HazMat Intermodal Specialist (Pro-Board Certification)

Hours of instruction: 20 hours (2 ½ days) (classroom/field exercises)

Number of students: 12 minimum I 16 maximum

Prerequisites: Proof of completion of training for all competencies at the Technician Level (NFPA 472 Chapter 7 Competencies for Hazardous Materials Technician)

Instructor staff: One (1) instructor and one (1) technician

Host facility: This course will only be conducted at the Brayton Fire Training Field

Who should attend: Technician level personnel expected to respond to incidents and provide technical support, oversight for product removal and moving of damaged tank cars, and act as a liaison between outside resources and technicians.

Course content: This course meets or exceeds the NFPA 472 Chapter 14 for Competence of Responders to HazMat/WMD Incidents for Technicians with an Intermodal Tank Specialty. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 14 Competencies for Technicians with an Intermodal Tank Specialty. Participants will be able to objectively demonstrate competency in the following areas:

- Intermodal tank construction
- Damage assessment
COURSES AND COURSE DESCRIPTIONS

- Transfer techniques
- Leak containment
- Flaring
- Fitting repair
- Safety

H-509 NFPA 472 HazMat Transportation Specialist (Pro-Board Certification)

**Hours of instruction:** 50 Hours (5 days) (classroom/field exercises)

**Number of students:** 12 minimum / 16 maximum

Prerequisites: Proof of completion of training for all competencies at the Technician Level (NFPA 472 Chapter 7 Competencies for Hazardous Materials Technician)

**Instructor staff:** One (1) instructor and one (1) technician

**Host facility:** This course will only be conducted at the Brayton Fire Training Field

**Who should attend:** Technician level personnel expected to respond to incidents and provide technical support, oversight for product removal and moving of damaged tank cars, and act as a liaison between outside resources and technicians.

**Course content:** This course meets or exceeds the NFPA 472 Chapters 12, 13, and 14 for competence of Responders to HazMat/WMD incidents for Technicians with Tank Car, Cargo Tank, and Intermodal Tank Specialties. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapters 12, 13, and 14 competencies for Technicians with Tank Car, Cargo Tank, and Intermodal Tank Specialties.

- Tank car construction
- Cargo tank construction
- Intermodal tank construction
- Damage assessment
- Transfer techniques
- Leak containment
- Flaring
- Fitting repair
- Safety

H-510 NFPA 1072 Air Monitoring for hazardous materials (Pro-Board Certification)

**Hours of instruction:** 16 hours (2 days) (classroom/field exercises)

**Number of students:** 12 minimum / 30 maximum

**Prerequisite:** Proof of completion of training for all competencies at the Operations level NFPA 1072 Chapter 5 Core Competencies for Operations Level Responders, and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities.

**Instructor Staff:** One (1) instructor and one (1) technician

**Host facility:** The host facility will need to secure and provide a written test proctor prior to the class. The host facility will also provide a secure location with a water source for outdoor activities and skills testing and a classroom location of suitable size for testing and lecture.
COURSES AND COURSE DESCRIPTIONS

Who should attend: Personnel trained to the operations level who are assigned to implement air monitoring and sampling operations at a HazMat/WMD incident.

Course content: This course meets or exceeds the NFPA 1072 Chapter 6.7 Mission Specific Competencies Air Monitoring and Sampling Standard for Competence of Responders to HazMat/WMD incidents for Operations level personnel. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 6.7 Air Monitoring and Sampling Competencies for Operations Level Personnel. Participants will be able to objectively demonstrate competency in the following areas:

- Plan the response
- Plan air monitoring and sampling activities
- Describe air monitoring options at the operations level
- Implement the response
- Implement air monitoring options and sampling activities

H-511 NFPA 1072 HazMat Awareness Level
Hours of instruction: 8 hours (1 day) (Classroom)
Number of students: 12 minimum and 30 maximum
Prerequisites: None
Instructor staff: One (1) instructor
Host facility: The host facility will need to secure and provide a written test proctor prior to the class. The host facility will also provide a classroom location of suitable size for testing and lecture.

Who should attend: Personnel who could encounter an emergency involving HazMat/WMD and who are expected to recognize the presence of the hazardous materials/WMD, protect themselves, call for trained personnel, and secure the area.

Course content: This course meets the NFPA 1072 Chapter 4 Competencies for Awareness Level Personnel to HazMat/WMD incidents and CFR 1910.120 (q) (6) (i) for Awareness Level Personnel. Upon completion of this course students are eligible to take the 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.

- Analyze the incident
- Detect the presence of HazMat/WMD
- Survey a HazMat/WMD incident from a safe location
- Collect hazard information from the current edition of the DOT ERG
- Implement the response
- Initiate protective actions
- Initiate the notification process

H-512 NFPA 1072 HazMat First Responder Operations (Pro-Board Certification)
Hours of instruction: 16 hours (2 days) (classroom/field exercises)
Number of students: 12 minimum I 30 maximum
COURSES AND COURSE DESCRIPTIONS

**Prerequisites:** Proof of completion of training for all competencies at the awareness level (NFPA 1072 Chapter 4)

**Instructor staff:** One (1) instructor and one (1) technician

**Host facility:** The host facility will need to secure and provide a written test proctor prior to the class. The host facility will also provide a secure location with a water source for outdoor activities and skills testing and a classroom location of suitable size for testing and lecture.

**Who should attend:** Personnel who respond to emergencies involving HazMat/WMD for the purpose of protecting nearby persons, the environment, or property from the effects of the release.

**Course content:** This course meets or exceeds the NFPA 1072 Chapter 5 Core Competencies for Operations Level Responders, and Chapter 6.2 Competencies for Operational Level Responders Assigned Mission Specific Responsibilities of Responders to HazMat/WMD incidents and 29 CFR 1910.120 (q)(6)(ii) for operations level personnel. Upon completion of this course students are eligible to take the National Board on Fire Service Professional Qualifications written exam and skills testing for NFPA Chapter 5 and 6.2 competencies for Operations Level Personnel. Participants will be able to objectively demonstrate competency in the following areas:

- Analyze the incident
- Detect the presence of HazMat/WMD
- Determine scope of the problem
- Determine potential outcomes
- Plan a response
- Capabilities of operations level personnel
- PPE/identifying/donning /doffing/working in/hazards

- Implement the response
- Establish control zones/emergency decontamination/communications
- Implement protective actions
- Perform operations level tasks
- Evaluate progress
- Communicate status

**H-513 Confined Space Rescue Refresher**

**Hours of instruction:** 16 hours (2 days) (classroom/field exercises)

**Number of students:** 10 minimum I 15 maximum depending on availability of spaces.

**Prerequisites:** Proof of completion of training for competencies at the Confined Space per NFPA 1670 and OSHA 29CFR1910.146

**Instructor staff:** One (1) instructor

**Host Facility:** The host facility will provide a testing/classroom location of suitable size for testing and lecture. The host facility will also provide outdoor training locations to include a drill tower for field lowering exercises and confined spaces to include openings of 18" to 36" with vertical and horizontal entry (if available). TEEX will provide a confined space training trailer if available when suitable training props cannot be provide by host. Please contact us at 512-424-2844 or EMDTechHaz@dps.texas.gov if you are unable to provide the training tower and/or confined spaces at the time the class is requested.
COURSES AND COURSE DESCRIPTIONS

Who should attend: Personnel trained to the Confined Space level who have expected duties dealing with Confined Space Entry and Rescue.

Course Content: This course is designed for emergency responders as annual refresher training per OSHA 1910. 146 and NFPA 1970, “Confined Space Rescue”, including confined space entry and rescue operations, utilizing appropriate equipment, and patient and resource management techniques. 
Refresher topics include:
  - Knot Tying
  - Patient Packaging
  - Hauling Systems
  - Lowering Systems
  - Federal Regulations
  - Confined Space Hazards
  - Atmospheric Monitoring
  - Hazard Control and Personal Protective Equipment (PPE)
  - Confined Space Rescue without Atmospheric Hazards
  - Confined Space Rescue with Atmospheric Hazards

PPE Requirements: All participants must bring the following items with them to class – hard hat, safety glasses, leather gloves, safety-toe footwear.
### Attachment C
#### FY 2020 TDEM Pricing

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<th>TDEM Course Number</th>
<th>Title</th>
<th>Course Hours</th>
<th>Minimum Number of Students</th>
<th>Maximum Number of Students</th>
<th>Minimum Number of Students for Skills</th>
<th>Student Hours</th>
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## FY 2020 TDEM Pricing

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<tr>
<th>TDEM Course Number</th>
<th>Title</th>
<th>Course Hours</th>
<th>Minimum Number of Students</th>
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<th>Minimum Number of Students for Skills</th>
<th>Student Hours</th>
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<th>Cost Per Student Above Minimum</th>
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## FY 2020 TDEM Pricing

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