



**OFFICE OF THE STATE FIRE COMMISSIONER  
PENNSYLVANIA STATE FIRE ACADEMY  
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**ALTERNATIVE ENERGY EMERGENCY RESPONSE TRAINING**  
**Academy on the Road Programs**

Revised 6-5-19

The following *Alternative Energy Emergency Response (AEER)* classes are provided FREE of charge at your location by the Pennsylvania State Fire Academy. Most classes offered are also pre-approved for Department of Health Continuing Education Credit hours.

1. **Air Monitoring for First Responders (AMFR)** - 4 hours: This program will describe the unseen hazards requiring early air monitoring to assure a safe environment while operating at incidents where atmospheric conditions are potentially harmful. A combination of lecture and discussion will focus on hazards associated with responding to an incident. Hands-on exercises include the use and interpretation of single gas, multi-gas, and photoionization detectors (PID) available to departments
2. **Wellsite Emergency First Responder (WEFR)** - 6 hours: *Updated in 2019!* This program describes the activities normally part of a Marcellus or Utica Shale Gas Field project and some of the emergencies that could occur at or near the site. Subjects include well site selection and preparation, rigging up and well construction, completing the well and rigging down, the production phase including typical equipment found on a pad in production and the role of the emergency responder. Past gas well pad emergency incidents are reviewed and discussed.
3. **Wellsite Production Phase Emergencies (WPPE)** - 2 hours: *PRIMARILY FOR PERSONS THAT ATTENDED THE PREVIOUSLY OFFERED 4-HOUR WEFR CLASS.* This program describes additional activities that are normally a part of a Marcellus or Utica Shale Gas well in the production phase and some of the emergencies that could occur at or near the gas well site. Subjects include typical equipment seen in the production phase at a well site, emergency incidents that have occurred at or near sites and the role of the emergency responder.
4. **Firefighting at Shale Gas Emergencies (FSGE)** - 16 hours: *Updated in 2019!* This 3-day program includes the “Wellsite Emergency First Responder” program in addition to detailed information for emergency response. Students attending this course will become familiar with the history of drilling, shale layers in PA, well site emergencies, extinguishing agents, firefighting techniques and the roles and responsibilities of first responders. Outside activities on Day 2 include a gas industry vehicle demonstration/explanation, hose line drills and **live-fire** exercises including foam application.  
**Offered at pre-approved sites with required props and simulators only.**
5. **Responding to Ethanol Incidents (RTEI)** - 7 hours: This 1-day program utilizes curriculum from the International Association of Fire Chiefs that covers a range of issues including ethanol and blended fuels, transportation of ethanol blended fuels, storage, dispensing and firefighting foam principles for ethanol blended fuels. Traditional methods of firefighting against hydrocarbon (gasoline) fires have been found to be ineffective against these polar solvent-type (ethanol-blended) fuels so new tactics must be utilized.

6. **Foam – Ethanol Technician Level I (FEUT)** - 8 hours: This 1-day program covers a range of issues including foam equipment, foam types, foam application and provides an opportunity to utilize the latest foam equipment. This class is an excellent follow-up program to the “*Responding to Ethanol Incidents*” (RTEI) Class but can be scheduled as a stand-alone program.
7. **Pipeline Emergencies Awareness 101 (PERI)** - 2 hours: *New in 2019!* This program is a result of the PA Pipeline Emergency Response Initiative which is a joint effort between the Fire Academy and pipeline operators. This program brings together responders, local stakeholders and local pipeline operators together so students can learn who specifically respond in their area to a pipeline emergency, locations and basic pipeline operations.
8. **Pipeline Emergencies Awareness Training (PEAT)** - 4 hours: This program helps students attending to easily identify the key players who may respond to a pipeline emergency, primary causes of pipeline incidents, basic pipeline operations and safe defensive practices.
9. **Pipeline Emergencies Operations Training (PEOT)** - 8 hours: This 1-day program will identify the key players who may respond to a pipeline emergency, primary causes of pipeline incidents, basic pipeline operations, properties of products transported via pipelines, as well as pipeline markers and the types of pipelines. Numerous scenarios are used to challenge and educate attendees.
10. **Flammable Gas and Liquids Fire Fighting (ZFGLF)** - 18 hours: This 3-day program is designed for firefighters who may respond to fires involving flammable gas and liquids including but not limited to LP Gas, Bakken Crude Oil, ethanol or fuel oil. ***This is a Resident Program class ONLY offered at the PA State Fire Academy in Lewistown. Other remote sites will require prior authorization by academy staff.***
11. **Transportation Rail Incident Preparedness & Response: High Hazard Flammable Trains (TRIPR)** - 8 hours: *Updated in 2019 to Version 2.0!* This program provides critical information on best practices related to rail incidents involving unit trains hauling Hazard Class 3 flammable liquids such as petroleum crude oil and ethanol.
12. **Portable-Pipelines for the First Responder (PPFR)** - 4 hours: *Updated in 2018!* This program is designed to help first responders at the awareness or operations level understand new energy technologies designed to bring low cost-effective fuels to end-user sites throughout the country. The class will identify components and purpose of a portable pipeline. Topics covered are the different types of highway cargo tanks (tube trailers) used to transport and store compressed natural gas (CNG) and the fill and end user facilities.
13. **Natural Gas Vehicles and Fueling Stations for First Responders (NGVF)** - 6 hours: This program introduces the different types of gaseous (CNG, LNG, LPG) fueled vehicles, fueling stations and the fueling station safety systems. During the class, first responders will learn how to recognize CNG, LNG, and LPG, their properties, current gaseous fuel vehicles and natural gas vehicle components. The class also reviews how first responders should approach and assess a natural gas vehicle or fueling station incident, required personal protective equipment for responding to an incident, general firefighting measures, and extrication.

14. **Advanced Logger Rescue (ALRT)** - 8 hours: This 1-day program is designed to educate students on how to become rescuers, to protect the patient and prevent rescuers from becoming victims themselves.

**Classes are scheduled on a limited basis, six months in advance.**

15. **Field Force Extrication Tactics (FFET)** - 24 hours: This 3-day program provides information required addressing protestor devices when found during opposition or demonstrations at alternative fuel related sites. Most of the program is practical exercises during which the responder will be able to demonstrate safe work practices for removing individuals from a variety of protestor devices. **Classes are scheduled on a limited basis, six months in advance, subject to Department of Homeland Security funding and approval.**

16. **WWCI Hazardous Materials Technician (WWHMT)** - 40 hours: This 5-day program will help to prepare responders to manage a Haz-Mat incident, organize and direct an effective response, develop the responders' ability to pre-plan for Haz-Mat Emergencies, improve the capability of their internal response organization and inform responders of the regulatory requirements governing management of Haz-Mat incidents. This course complies with OSHA 29 CFR 1910.120(q).

17. **WWCI Hazardous Material Technician Refresher (WWHMTR)** - 16 hours: This 2-day program reviews the skills and competencies that are required to be successful in the role of a hazardous materials technician in gas field emergencies. Students receive the critical knowledge to safely respond to multiple types of hazardous materials emergencies. Course topics cover aspects ranging from role definition on to implementing contingency plans. This course complies with OSHA 29 CFR 1910.120(q).

***\*Fees for the 40-hour Technician and the 16-hour Technician Refresher class are based on the following criteria: Individuals who are active Hazardous Materials Technicians or members of a Pennsylvania certified Hazardous Materials Response Team; or who are identified as business and industry Hazardous Materials Technicians involved in transportation and on-site emergency response will not be charged a fee. All other individuals will be charged a \$250.00 fee for technician class and \$100.00 fee for the technician refresher class.***

***To schedule classes or any questions please contact:***

***Jerry Bimle at [gbimle@pa.gov](mailto:gbimle@pa.gov) or 717-247-3752***