

# TECHNICAL TRAINING

**MIIA** | MASSACHUSETTS  
BASED  
MEMBER  
DRIVEN



## COMPETENT PERSON TRAINING: EXCAVATION AND TRENCHING

Monday, September 23, 2019  
Wilbraham Police Department  
2780 Boston Rd. Wilbraham, MA 01095  
8:00 a.m. 3:00 p.m.

Registration/Continental Breakfast : 7:30 a.m. Lunch Provided

**MIIA**  
**Rewards**  
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### PRESENTER

New England Water Works  
Association



**New England**  
Water Works Association  
a Section of the American Water Works Association

### TRAINER

**David Boone** has been a member of the New England Water Works Association (NEWWA) faculty for the past five years and also serves on the University of Texas, Arlington Faculty. He has extensive experience in all facets of safety and heavy equipment operator training and is a veteran of the U.S. Navy Seabees.

David holds a wide range of professional licenses and certifications including OSHA Safety, Health, and Environmental Professional (SHEP). He also has extensive experience in training public sector professionals and extensive work experience in the construction industry.

**Ted Kenney**, Education Advisor/Special Projects Manager, will also assist in the training.

## COURSE DESCRIPTION



OSHA requires a competent person to perform soil analyses and determine the protective system to be used in excavations. Daily inspections are also required. Inspection personnel must be trained in the OSHA regulations. This seminar will present key trenching/excavation topics: soil analysis, protective systems (sloping, shoring, shielding), hazardous atmospheres, excavation site safety and hazard recognition.

**Target audience: Working Foremen and Equipment operators**

### Agenda

8:00-9:00 AM

- Definitions
- Surface Encumbrances
- Underground Installations
- Access & Egress
- Exposure to Falling Loads
- Warning System for Mobile Equipment

9:00-9:15 AM- Break

9:15-10:00 AM

- Hazardous Atmospheres
- Protection from Hazards Associated With Water Accumulation
- Stability of Adjacent Structures
- Protection of Employees from Loose Rock or Soil Inspections
- Fall Protection

10:00-10:15 AM- Break

10:15-11:30 AM

- Requirements for Protective Systems
- Protection of Employees in Excavations
- Design of Sloping & Benching Systems
- Design of Support Systems, Shelf Systems & Other Protective Systems
- Materials & Equipment
- Installation & Removal of Support Systems

11:30-12:30 PM Lunch

12:30-1:30 PM

- Sloping & Benching Systems
- Shield Systems

1:30-1:45 PM-Break

1:45-3:00 PM

- Appendix A- Soil Classification
- Appendix B-Sloping & Benching
- Appendix C- Timber Shoring For Trenches
- Appendix D- Aluminum Hydraulic Shoring For Trenches
- Appendix E-Alternatives to Timber Shoring
- Appendix F- Selection of Protective Systems
- Policies & Procedures
  
- Summary/Question & Answer
- Written Assesement
- Course Evaluation/Adjourn

Attendance at this seminar qualifies the MIIA member for 1% credit under the FY20 MIIA Rewards Workers' Compensation category.