TRENCH RESCUE TECHNICIAN OBJECTIVES

49-1. Identify a trench incident that exceeds an operations level response. *(9-4.1)*

49-2. Identify associated hazards for each of the following incidents: *(9-4.1)*

A. Straight trenches in excess of 8 feet in depth
B. Intersecting trenches

i. "L" trenches
ii. "T" trenches
iii. "X" trenches

C. Severe environmental conditions

49-3. Identify equipment use for each of the following incidents: *(9-4.1)*

A. Straight trenches in excess of 8 feet in depth
B. Intersecting trenches

i. "L" trenches
ii. "T" trenches
iii. "X" trenches

C. Severe environmental conditions

49-4. Identify safe operating techniques for each of the following incidents: *(9-4.1)*

A. Straight trenches in excess of 8 feet in depth
B. Intersecting trenches

i. "L" trenches
ii. "T" trenches
iii. "X" trenches

C. Severe environmental conditions

49-5. Identify procedures to monitor the atmosphere and other potential changing hazards in all parts of a trench that are to be entered. *(9-4.3b)*

49-6. Identify situations where the use of supplemental sheeting and shoring, trench boxes/shields and isolation systems may be advantageous. *(9-4.1)*

49-7. Identify procedures for rigging and placement of isolation systems. *(9-4.3e)*

49-8. Identify procedures for the identification, construction, application, limitations and removal of manufactured protective systems using tabulated data and approved engineering practices. *(9-4.3a)*

49-9. Identify procedures for the identification, construction, application, limitations and removal of supplemental sheeting and shoring systems. *(9-4.3c)*

49-10. Identify procedures for the adjustment of protective systems based on digging operations and environmental conditions. *(9-4.3d)*

49-11. Identify advantages and procedures for utilizing vacuum devices and air knives/spades for soil and/or water removal. *(9-4.3d)*

TRENCH RESCUE TECHNICIAN PRACTICAL OBJECTIVES

49-12 Given a summary of a trench rescue incident, trench rescue equipment, a straight trench in soil with a depth in excess of 8 feet, and donned in required protective clothing and in accordance with the OSHA safety section, the student shall participate as a member in a rescue team and demonstrate the construction of shoring system appropriate for the trench dimensions with 100% accuracy.

49-13 Given a summary of a trench rescue incident, trench rescue equipment, a straight trench in soil with a depth in excess of 8 feet, and donned in required protective clothing and in accordance with the OSHA safety section, the student shall participate as a member in a rescue team and demonstrate the construction of shoring system with wale's and the use of supplemental shoring / sheeting appropriate for the trench dimensions with 100% accuracy.

49-14 Given a summary of a trench rescue incident, trench rescue equipment, an intersecting trench in the shape of a "T" in soil, and donned in required protective clothing and in accordance with the OSHA safety section, the student shall participate as a member in a rescue team and demonstrate the construction of a "T" Trench Wale system appropriate for the trench dimensions with 100% accuracy.
*** This technique may be modified to shore an "X" trench**

49-15 Given a summary of a trench rescue incident, trench rescue equipment, an intersecting trench in the shape of a "L" in soil, and donned in required protective clothing and in accordance with the OSHA safety section, the student shall participate as a member in a rescue team and demonstrate the construction of a "L" Trench Shoring system appropriate for the trench dimensions from the following list with 100% accuracy.

- **A. "L" Trench Cantilever System**
- **B. "L" Trench Cantilever with Corner Strut System**
- **C. "L" Trench Horizontal Raker System**