

NUCA PIPE INSTALLATION TRAINING PROGRAM

CHAPTER 2: Excavation/Trenching/Manholes/Backfilling

Outline

A. Safety

- One Call Service
- Personal Protection Equip. (PPE)
- Overhead Lines
- Changing Conditions
- Daily Requirements
- Competent Person
- Buried Utilities
- Trench Protection
- Sloping
- Shoring
- Shielding
- Stacking Boxes
- Recognize Unsafe Trenches
- Establish Clear Communication
- Struck by Loads/Moving Objects
- Quiz

B. Trenching

- Undercut Control
- Precise Work
- Coordination with Survey
- Checking Grade
- Laser
- Ladders
- Set the Pace
- Inspect Pipe
- Rigging
- Setting the Pipe
- Quiz

C. Bedding

- Grade
- Bedding Preparation
- Proper Digouts
- Preventing Movement
- Pipe Support
- Types of Bedding & Haunching
- Quiz

D. Backfilling

- Initial & Final Backfill
- Careful Soil Placement
- Compaction
- Moisture Content
- Lifts
- Costly Corrections

- Puddling/Jetting
- Safety
- Plan for Drainage
- Pipe Bellies
- Quiz

E. Manhole

- Setting a Manhole
- Manhole Base
- Alignment Marks
- Rigging & Lifting
- Mudwork
- Seal
- Confined Spaces
- Rescue
- Quiz

F. Dewatering

- Plan for Water
- Dewatering
- Pump Discharge
- Handling Pump
- Gasoline Pump
- Quiz

G. Tie-Ins

- Shut Offs
- Investigations
- Planning your Materials
- Plan for Drain Water
- Tapping Sleeve Procedure
- Tie in Testing
- Compaction
- Mark the Service Line
- Quiz

H. Final Exam

