



American Polywater Presents...

PULL IT IN AND ENERGIZE! Or, is there more to cable installation and splice preparation than meets the eye?

Description and Overview of Course Content to be Presented:

Cable Installation

1. Using pulling theory to optimize cable installation.
2. Coefficient of friction determination and how friction affects cable installation tension and sidewall pressure.
3. **Use of Pull-Planner™ 3000 computer software to assist in planning pulls.**
4. Cable lubricant performance differences--does it really matter?
5. Cable lubrication application procedures.
6. Discussion of new technology, including specially formulated lubricants for LSZH/CPE cables, prelubrication of conduits and lubricants for high-end applications.

Refurbishment and Cable Removal

1. How to get stuck wires and cables out of your conduit system.

Splicing and Terminating Preparation

1. Proper high voltage cable cleaning techniques. – New cable cleaners

Duct Blocking and Conduit Joining Techniques

1. Use of Polywater® FST™ foam duct sealants.
2. BonDuit® Conduit Adhesive for bonding HDPE to PVC, rigid steel and fiberglass.

Fire Rated Cables, Low-Smoke Zero-Halogen cables and Fire Rated Systems

1. Specialty lubricants designed for your systems.

Learning Objectives:

- A. To understand pulling theory and friction as it relates to cable installation tension, sidewall pressure, and properly planned pulls.
- B. To be able to estimate cable pulling tensions and sidewall pressure before the pull begins.
- C. To know the best placement of pulling equipment to minimize force and optimize performance.
- D. To differentiate use between pulling eyes and Kellems grip.
- E. To know which lubricant method is best for a pull.
- F. To understand the differences of and how lubricants and lubrication procedures can affect your installation and the life of your cable.
- G. To understand cable removal techniques so those conduit systems can be reused.
- H. To know cable cleaning techniques for safe, effective splices and terminations.
- I. To learn about where foam sealants can be used effectively.
- J. The Pull-Planner® 3000 software is free to anyone who specifies Polywater® Products.**

This Course May Be Approved For CEU Credits