

COURSE TITLE

Rehabilitation of Water Distribution Systems Designing Renewal Projects

Course Description

The average age of water distribution systems within the U.S. is between 50 to 100 years. This is right at the design life cycle of many systems; thus local water agencies are investing more and more in the rehabilitation of existing water distribution systems instead of the construction of new systems. We are going to review some of the key technical guidelines and standards for the design of renewal projects for water distribution systems.

Course Objectives

After successfully completing this course, you will be able to:

- Identify the four classes of rehabilitation designs for water distribution systems from AWWA M28
- Describe at least 4 ASTM Standards used to test rehabilitation systems
- Given a specific rehabilitation technology, identify at least one applicable installation standard that safeguards the public's health, safety and welfare
- Given a specific rehabilitation technology, identify the applicable short-term QA/QC standard

Outline

- Introduction – 5 minutes
- Rehabilitation Design – 10 minutes
- Minimum Requirements and Standards – 15 minutes
- Installation Standards – 15 minutes
- QA/QC Requirements – 10 minutes
- Conclusion – 5 minutes