

## COURSE TITLE

### Rehabilitation of Water Distribution Systems: Selecting Rehabilitation Methods

#### 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 items that need to be considered when selecting a rehabilitation method to maintain the operability of water distribution systems.

#### Course Objectives

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

- Define at least four of the most common problems in water distribution systems
- List at least 3 inspection methods used to assess the structural condition of pipes
- Given a rehabilitation method and a pipe diameter, estimate an order of magnitude capital cost
- Describe the disinfection requirements in rehabilitation projects to safeguard the public's health, safety and welfare

#### Outline

- Introduction – 5 minutes
- Identifying the Problem – 25 minutes
- Factors Affecting the Selection of a Rehabilitation Method – 25 minutes
- Conclusion – 5 minutes