



WQT 228 Wastewater Collection Systems

Course Description

This course introduces the basics of wastewater and storm water collection systems. Primary focus will be pipe sizing, general system components, installation, inspection, operation and maintenance techniques. Prepares students for the Wastewater Collections Operator Level I State examination.

Course Learning Outcomes (CLOs)

Students who successfully complete this course will:

1. Describe the purpose and function of wastewater collection systems and ancillary devices and equipment
2. Apply the concepts and principles of hydraulic computations as they relate to gravity flow systems.
3. Explain sources and symptoms of collection system defects and failures and potential corrective actions
4. Describe collection system maintenance activities and the safety procedures necessary to properly complete these.

Topics

1. Introduction to Wastewater Collection Systems
2. Design Fundamentals, Flow, Velocity, Piping
3. Safe Procedures
4. Inspection and Testing
5. Cleaning and Maintenance
6. Underground Repair
7. Storm Water Drainage