

Water Transmission and Distribution I

Course Overview

This course is designed to provide a foundational understanding of Water Transmission and Distribution, system maintenance and inspection, and the safety of the public water supply. Course material consists of reading assignments, video lectures, review questions, study problems and lesson quizzes.

Course completion requires that the student successfully complete each component of each individual lesson. Review questions and written assignments must be submitted either online or uploaded in a Word document for the professor's review. Lesson quizzes have a minimum passing score of 70%.

Upon successful completion of the course requirements, students will receive a certificate of completion for 4.8 CEUs (48 contact hours) the Water Transmission and Distribution I course, which is applicable toward a Certificate in Water Transmission Technology from American Water College.

Required Texts

Textbook: Water Distribution Operator Training Handbook

Edition: Fourth Edition

Authors: William C. Lauer

ISBN: 978-1-58321-954-6

Textbook: Water Treatment Operator Training Handbook

Edition: Third Edition

Authors: Nicholas Pizzi and William C. Lauer

ISBN: 978-1-58321-861-7

Educational Objectives

- To provide students with an overview of system design, operation and maintenance
- To provide students with a foundational knowledge of types of equipment used to transmit and distribute water
- To acquaint students with the principles of water storage and safety
- To provide students with a foundational knowledge of pumps, pumping stations, operation, safety, record keeping and maintenance
- To acquaint students with valves and hydrants, their inspection, installation and maintenance

Water Transmission and Distribution I

- To provide a foundational overview of motors and engines used in water transmission and distribution
- To acquaint students with the instrumentation and control of a water distribution system