



Epanet Software

Course Description

One of the most important aspects in the design of water supply and irrigation systems is the design of an optimal system. From choosing the right layout of the system after mapping to setting/assigning demands to the target nodes. The main focus of this course is to help design engineers to understand the most important steps taken in design and simulation of water systems by using Epanet and the Associate software (Google Earth/AutoCad).

EPANET software is one of the interesting water distribution system modeling software package developed by U.S. Environmental Protection Agency (EPA). EPANET is widely used to perform extended-period simulation of the hydraulic and water quality behavior within irrigation systems, which consist of pipes, nodes (junctions), pumps, valves, storage tanks, and reservoirs.

This training course will help learners to learn how to use EPANET for the hydraulic simulations of water supply systems. During the course, design steps will be highlighted through several simple examples and the practical examples are illustrated to show how to apply the EPANET software into practice of pressurized irrigation systems.



At the end of this course a learner will be able to:

- ☐ Have prior detailed knowledge in planning of water supply system.
- ☐ Have working knowledge in Integrating Epanet software and other associate software's (Google earth & AutoCAD).
- ☐ Have gained knowledge in designing and working EPANET to simulate the water supply systems.

Course Outline

- ☐ **Module 01:** Introduction to EPANET.
- ☐ **Module 02 & 03:** Design of pressurized systems; Single Period Simulation & Extended Period Simulation.
- ☐ **Module 04:** Practical Examples.