



**IFS ACADEMY**  
Training For The Future!!



**Bentley  
Institute**

Academic Service Partner

## **Water Distribution Modeling using WaterCAD OR WaterGEMS**

**Course Curriculum (Duration: 25 Hrs.)**

### **Chapter 1: Introduction to WaterCAD / WaterGEMS**

- Basics of Hydraulics
- Overview of Water Distribution Design & Modeling
- WaterGEMS GUI
- Building a Network
- Assigning Values via Properties Dialog
- Using Flex Tables
- Extended Period Simulation
- Alternatives and Scenarios

### **Chapter 2: Modeling Basics**

- Water System Design & Water Distribution Modeling
- Building a Network with Fire Flow
- Building a Network with Fire Flows using MicroStation
- Building a Network with Pumps, Tanks, and PRVs
- Pump Selection
- What is Hydraulic Model?
- Using Water Distribution Models
- Internal Workings of WaterGEMS and WaterCAD
- Building a Water Model
- Reviewing Results
- Piping Data, Tanks and Pumps

### **Chapter 3: Case Study / Project: Fire Flow Analysis**

### **Chapter 4: Case Study / Project: Distribution System**

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