



Advance Water Distribution Modeling using WaterCAD OR WaterGEMS

Course Curriculum (Duration: 50 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: Criticality and Segmentation using WaterCAD or WaterGEMS

Chapter 4: Case Study / Project: Fire Flow Analysis

Chapter 5: Case Study / Project: Distribution System

IFS Academy, Pune

Phone: +91-20-6400 7296, Email: training@ifsacademy.org,

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