

**Water Distribution Design and Modeling Fundamentals,
WaterGEMS, WaterCAD**

AGENDA

Day 1

No.	Topics
1	Welcome and Introduction
2	Fundamentals of Hydraulics
3	Fundamentals of Water Supply Schemes
4	Data requirements to develop a hydraulic model
5	Developing a Hydraulic Model for a WDN
6	Validating and Calculating the results
7	Results Representation
8	Day End with Q&A

Day 2

No.	Topics
1	Introduction to Scenarios and Alternatives
2	Creating a Model Scenario
3	Introduction to Automatic Model Building Methods
4	Model Builder, Load Builder, TRex

Day 3

No.	Topics
1	Modeling Valves, Tanks and Pumps
2	Steady state and Extended Period Simulation
3	Hydraulic Network Design using Darwin Designer
4	Optimizing Isolation Valves- Location and Numbers using Criticality

Day 4

No.	Topics
1	Case Study: Rural Water Distribution Network

Day 5

No.	Topics
1	Case Study: Urban Water Distribution Network

Note: After Completion of this course the participants will be eligible for 'Lifetime Access' to BI Press Subscription. For more details pls visit: <https://www.ebook.bentley.com/>

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