

SewerGEMS V8i/SewerCAD V8i, Sewer System Modeling (metric)

Course Type: Classroom Learning: Hands-on

Products Covered: SewerGEMS, SewerCAD

Target Audience: Civil Engineer; Civil Engineering Technician; Consultant; Designer; Design Engineer; Hydraulics Engineer; Project Manager; Site Developer

Course Description: This training class includes discussions and hands-on workshops on collection system hydraulics, new system design, master planning, capacity analysis, and rehabilitation, for wastewater collection systems. In addition to instruction on how the models work, students complete hands-on exercises using SewerGEMS and SewerCAD software, a dynamic analysis tool that can run directly within the GIS environment. Both steady-state and extended-period simulations (through time) are presented in this course, as well as gravity and pressure system components. Attendees learn to customize plan and profile sheets, tabular reports and sanitary and wet-weather loadings. Exercises apply SewerGEMS and SewerCAD tools to leverage existing GIS and database information to build models and populate loadings. Analyses of combined sewer systems are also covered in this course. Students will work the case studies using the Stand Alone SewerGEMS and/or SewerCAD.

Learning Objectives: This class enables those involved in capacity analysis, system rehabilitation, infiltration & inflow studies, and new design to use SewerGEMS or SewerCAD to complete their daily tasks much more efficiently. Attendees will be able to better produce customized profiles, graphs & tables, as well as learn how to present and review model results for pipe sizing, capacity analysis and wet weather overflows.

Course Topics:

- Creating models
- Model loading
- System capacity
- Scenario management
- Locating potential overflows
- System rehabilitation
- New design Infiltration and inflow studies
- Master planning
- Pump selection
- Gravity and pressure components
- Customized sanitary loading

Course Details: **Course Prerequisites:** A cursory understanding of Sanitary Sewer and/or Storm collection systems is recommended. This course is beneficial for engineers, planners, consultants, operators and managers of sanitary and combined sewer systems.

Learning Units: 24

Display LUs in: hours

Accreditations:

Organization:	Value:
Bentley Institute	
	24 Bentley LU
Bentley Contact Hours	21 CONTACT HOURS