

Bentley Rail Track Fundamentals, XM Edition 8.9

Course Type: Classroom

Products Covered: Bentley Rail Track

Target Audience: Civil Engineer; Civil Engineering Technician; Consultant; Designer; Design Engineer

Course Description:

This course introduces designers to using Bentley Rail Track software for rail design projects. This hands-on training walks students through the project design cycle; including setting up a project, existing ground data, geometry, horizontal regression, switch and crossing layout, turnouts, and reporting.

After this course students will be able to:

Learning Objectives:

- navigate and use the Rail Track Interface
 - display surface contours, features and triangles
 - create horizontal geometry alignments from graphics
 - create and edit horizontal alignments through curve definitions
 - perform horizontal regression on track survey data
 - layout cant along track
 - place and display switches
 - place and display crossings
 - place and display turnouts
 - create profiles and cross sections
 - create and edit vertical PI's and define alignments
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Course Topics:

- A Tour of Bentley Rail Track
 - Project Setup
 - Introduction to Surfaces
 - Surface Creation
 - Introduction to Geometry
 - Horizontal Alignments
 - Horizontal Regression
 - Cant
 - Switch and Crossings
 - Turnouts
 - Profiles and Cross Sections
 - Vertical Alignments
 - Introduction to Reports
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Course Details:

Course Prerequisites: Students attending should have experience designing rail and producing design plans, a working knowledge of the Windows operating system, as well as experience with MicroStation V8 XM Edition or MicroStation V8i Edition, as appropriate.

Learning Units:

24

Display LUs in: hours

