

InRoads Fundamentals, XM Edition 8.9 with AutoCAD

Course Type: Classroom Learning: Hands-on

Products Covered: InRoads XM Edition with either AutoCAD 2004, 2005, or 2006

Target Audience: Civil Engineer; Civil Engineering Technician; Site Developer; Surveyor

Course Description:

Students will learn about using InRoads software for road design projects. This hands-on training walks students through the project design cycle including: setting up a project, existing ground data, geometry, volume design, and reporting. Students are encouraged to attend the InRoads Roadway Designer course after completing this training. InRoads Roadway Designer continues from this course and explores the Roadway Designer in much more detail. This course was formerly called InRoads 101 for AutoCAD. It applies to users of AutoCAD 2004, 2005 and 2006

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After this course students will be able to:

Learning Objectives:

- navigate and use the InRoads Interface
 - create a CAD files to be used for InRoads graphics using Project Defaults
 - display surface contours, features and triangles
 - create horizontal geometry alignments from graphics
 - create and edit horizontal alignments through curve definitions
 - create profiles and cross sections
 - create and edit vertical PI's and define alignments
 - create a corridor with the Roadway Designer
 - create a surface from a corridor
 - create and update cross sections
 - annotate cross sections
 - generate end-area volumes and volumes reports
 - generate an XML report and fixed format reports
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Course Topics:

- InRoads interface
 - Setting up an InRoads project
 - Project Defaults
 - Surface Types
 - Surface features
 - Creating existing ground surfaces
 - Displaying surfaces
 - Surface properties
 - Improving surface quality
 - Creating, editing, and displaying Horizontal alignments
 - Creating, editing, and displaying vertical alignments
 - Displaying profiles and cross sections
 - Annotating cross sections
 - Templates and Components
 - Introduction to Roadway Designer
 - Earthwork Volumes
 - Reports
 - Productivity Tools
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Course Details:

Course Prerequisites: Students attending should have experience designing roadways and producing design plans, a working knowledge of the Windows operating system, as well as experience with AutoCAD 2004, 2005, or 2006, as appropriate.

Learning Units: 24

Display LUs in: hours

Accreditations:

Organization:	Value:
Bentley Institute	24 Bentley I11

