



IFS ACADEMY

Training For The Future!!



**Bentley
Institute**

Academic Service Partner

Road Design & Analysis using MXROAD

Course Curriculum (Duration: 25 Hrs.)

Chapter 1: Introduction to OpenRoads

- OpenRoads Technology
- Software Tools
- Fundamental enhancements and changes within OpenRoads
- Getting Started with MXROAD
- Utilizing the Proper Workspace
- Navigating the User Interface
- Select Workspace and Set Up a Project File

Chapter 2: Creating & Viewing Terrain

- Creating, attaching, and displaying an Existing Ground Terrain Model
- Updating, Editing, and Analyzing Terrain Models
- Attach a Raster Aerial Photograph

Chapter 3: Creating Geometry

- Creating Horizontal / Vertical Geometry from Elements
 - Create horizontal / vertical geometry using line and arc element tools
 - Use the OpenRoads Technology heads-up display and element manipulators
 - Define start station of the alignment
- Creating Horizontal / Vertical Geometry from PI's
- Workshops

Chapter 4: Cross Sections

- Creating and Viewing Cross Sections
- Annotating Cross Sections
- End Area Volumes
- End Area Volumes with Substrata
- Workshops

Chapter 5: Case Study / Project: OpenRoads

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