



Advance Road Design & Analysis using MXROAD

Course Curriculum (Duration: 50 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: Overlay, Stripping, and Widening

- **Creating Overlay**, Stripping or Milling Template
- Creating a Multi-Layer Overlay Template
- Evaluating the Cost of a Corridor
- Creating a Widening Template
- Vertical Adjustments

Chapter 6: Creating Civil Cells

- About Civil Cells
- Create a Simple 2D Intersection Civil Cell
- Complete the Simple 2D Intersection Civil Cell

- Create a Simple 3D Intersection Civil Cell

Chapter 7: Case Study / Project

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