



## **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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