



FDOTConnect Virtual Training Labs

Roadway Design 3D Modeling

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Instructors

Eddie Giese, PE – Production Manager | Patel, Greene, & Associates, LLC

Kyle Rosenmeyer, PE – Model Based Design Leader | Vanasse Hangen Brustlin, Inc

Andrew Poszich, PE – Design Integration Lead | RS&H

Tejsingh Rana, PE – Project Manager, Business Development Lead | Highway Studio, LLC

Description

This is a 2-day training course to include fundamentals of 3D Modeling. Participants will continue to learn the Bentley OpenRoads Designer Connect Edition tools for design and modeling within the FDOTCONNECT WorkSpace. Several advanced concepts and technologies will be introduced including:

- Rule Based Superelevation Design Parameters
- Associating Template Points to Superelevation Lanes
- Constructing 3D Elements
- Building Intersection Terrains from 3D Elements
- Applying a Surface Depth to Terrain Elements
- Placing 3D Civil Cells
- Configuring Advanced 2D and 3D Civil Cells
- Corridor and Terrain Model Clipping
- Applying Linear Templates to 3D Elements
- Building DTM, XML Files for Construction Deliverables

Objectives

- Create a Superelevation Shape Model.
- Create Superelevation Sections and Lanes.
- Calculate and Assign Superelevation to a Corridor.
- Create an Intersection Terrain Model from 3D Elements.
- Create a Traffic Separator Nose Model on the Corridor Model.
- Create an Island Model on an Intersection.
- Apply Linear Corridors along 3D Elements.
- Create 3D Driveway on a Corridor Model.
- Create 3D Sidewalk Ramps on Intersection Model.
- Prepare the Files Necessary for Construction Deliverables