



FDOTConnect In Person Training Labs | Hilton Orlando

Drainage & Pond Design with 3D Modeling & Plans Development

May 31 – June 1, 2023

16 PDH's

Instructors

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Description

This course was developed to introduce the Drainage and Utilities Workflow and OpenRoads Designer CONNECT Edition tools for drainage design and modeling on Florida Department of Transportation (FDOT) projects. The curriculum was developed within the FDOTCONNECT Workspace to provide sample exercises for many of the Drainage Tools on a sample project data set. Participants of this course will be introduced to the newest OpenRoads environment and a Workflow for designing two dimensional (2D) Plans, Profiles, and three dimensional (3D) Models for drainage related Construction Deliverables.

- **Objectives:**
- Finding additional learning resources and training materials for OpenRoads Designer CONNECT Edition and the general process using Drainage and Utilities Workflow to design storm drain systems
- Various file types used within the Drainage and Utilities Workflow
- How to create and prepare a drainage file for design
- Navigating the interface for basic drainage tools and FDOT drainage components
- Delivered features and components within the FDOTCONNECT Drainage DGN library
- Laying out a simple network of inlets, pipes, and an outfall
- Tools to evaluate and edit drainage properties
- Creating a custom drainage feature
- Creating and assigning catchments to inlets
- Tools to define drainage design priorities and constraints
- Tools to review and evaluate hydraulic performance
- Producing a NexGen drainage structures sheet
- Producing a NexGen Summary of Drainage report (drainage quantities)
- Editing and exporting flex tables for drainage documentation

This course was developed to introduce the OpenRoads Designer CONNECT Edition tools for Pond Design and modeling on Florida Department of Transportation (FDOT) projects. The curriculum was

developed within the FDOTCONNECT Workspace to provide sample exercises for many of the Pond Design Tools on a sample project data set. Participants of this course will be introduced to the newest OpenRoads environment and a Workflow for designing two dimensional (2D) plans, profiles, and three dimensional (3D) models for Pond Design Construction Deliverables.

- Finding additional learning resources and training materials for OpenRoads Designer CONNECT Edition and the general process using Drainage and Utilities Workflow for Pond Design
- How to create and prepare a Pond Design file for use in construction Deliverables
- Laying out a simple Pond
- Tools to evaluate and edit the Pond Design
- Producing a NexGen Storm Water Facilities sheet (according to FDM 917)