

## Schedule Day 1:

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### 1) Course Introductions

- List of topics will be covered during this training (Below)

### 2) Overview of CDOT CADD and Digital Delivery Manual

- Introduction to what's coming for CDOT
- This training material to cover the upcoming Manual
- Best Practices and standards overview

### 3) ProjectWise Folder Structure

- Defining CDOT ProjectWise Folders
- Defining what files go where and why
- Document Searches

### 4) File Naming Convention

- Revisiting the CDOT traditional naming convention
- Background behind naming convention and reason for changes
- Overview of file naming for file types

### 5) Project Files

- Explaining the differences between a Design Model, Drawing Model, and Sheet Model
- Explaining what should be included within each file type
- File Federation and its importance
- Container Files and their importance
- Maintenance of Files
- Document Sets

## Schedule Day 2:

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### 6) ORD Interface

- Backstage settings and Preferences
- Tips and Tricks
- File Explorer and Properties Box

### 7) Existing Terrain Models

- Existing Terrain and Planimetrics Deliverables
- Creating Complex Terrains
- Explaining methods to display contours
- Explaining Symbolology Overrides

## Schedule Day 3:

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### 8) Geometry

- Horizontal Geometry
  - Methods of creating horizontal geometry
  - Establishing a best practice of creating horizontal geometry
  - Understanding how to effectively edit horizontal geometry
  - What not to do with horizontal geometry
- Superelevation
  - Creating Superelevation file
  - Editing Superelevations
- Vertical Geometry
  - Methods of creating vertical geometry
  - Establishing a best practice of creating vertical geometry
  - Understanding how to effectively edit vertical geometry
  - What not to do with vertical geometry

## Schedule Day 4:

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### 9) Roadway Templates

- Template Setup best practices
- Point names, parametric names
- Setting features to components and importance of it
- Display Rules overview
- Setup for End Condition Target types (Target Aliasing)
- How to setup and use switches

## Schedule Day 5:

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### 10) Corridor Modeling

- Initial set up and creation of the corridor
- Corridor Objects (Bucket) Dialog box
- Using Backbone and Alias Targeting
- Model between Corridor to Corridor
- Assigning Superelevation
- Feature Grading
- Surface Templates
- Linear Templates
- Corridor Clipping and Referencing
- Corridor Updates and Reattach

## Schedule Day 6:

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### 11) Proposed Terrain Models

- Suggested best practice
- Feature Grading Terrains
- Explaining the different ways to create a Proposed Terrain Model
- How editing a Terrain Model depends on the creation
- Creating Groups, Holes, Closing the terrain, etc.
- Creating Proposed Complex Terrain

### 12) Calculating Earthwork

- How to create Cut and Fill Volumes
- What to know prior to calculating earthwork
- Explaining the difference between End Area Volume and Volumetric quantities
- Best Practices with the method of End Area Volume

## Schedule Day 7:

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### 13) Plan Production

- Best Practices for sheet setup
- Containers used for Plan Production
- Utilizing Corridor Model Features
- Creating Civil Plans, Civil Profiles, Civil Plan & Profiles and Cross Sections
- General Sheets, Tabulation Sheets, Typical Sections
- Things to consider when annotating and using Element Annotation, Model Annotation and Civil Labeler
- Printing (WYSIWYG pen table) Pdf Print Driver, Pen Table, Plot Driver, and Plot Sets

### 14) 3D Modeling Deliverables (Quality Checks)

- Explaining the overview of 3D Modeling Deliverables
- Creating LandXML files for Alignments and importing back into a separate DGN
- Creating LandXML files for Surfaces and importing back into a separate DGN
- What DGN's to include along with the LandXML files
- Clean, Repeatable, Consumable Files
- Spreadsheets (Point Tables and Geometry)