



Let's Reach For Excellence!

TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC

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CIVIL3D ESSENTIAL

Duration: 30 hours (15 sessions)

COURSE OUTLINE

1. Introduction & Civil 3D interface

- What is Civil 3D?
- Installation and System requirements for AutoCAD Civil 3D 2018
- Application menu + Quick Access Toolbar + Ribbons
- Toolspace + Civil 3D settings hierarchy + Panorama
- Transparent commands + The Inquiry tool

2. Establishing Existing Conditions

- What is the point? Styles
- Managing points with point groups
- Managing points with description keys
- Survey databases 2.5 Importing survey data
- Managing figures
- Creating points within a drawing (COGO points)
- Creating point tables

3. Modeling a Surface

- What is a surface?
- Creating surfaces: Point group definition
- Creating surfaces: Breakline definition
- Creating surfaces: Boundary definition
- Save Creating surfaces: Boundary definition
- Labeling surfaces
- Volume surfaces
- Analyzing a surface

4. Layout of parcels

- What are Civil 3D sites and parcels?
- Creating parcels from objects
- Creating parcels by layout
- Editing parcels
- Labeling parcels: Segment labels
- Labeling parcels: Label and renumber area labels

- Parcel tags and tables

5. Design Horizontal Geometry: Alignments

- Sites, alignments, and alignment types
- Creating alignments
- Type of constraints
- Editing alignments
- Labeling alignments: Label set components
- Labeling alignments: Point and segment labels
- Offset alignments
- Connected alignments

6. Designing Vertical Geometry: Profiles

- Alignments, profiles, and profile views
- Types of profiles
- Creating surface profiles and profile views
- Creating layout profiles
- Editing profiles 6.6 Labeling profiles
- Labeling profile views 6.8
- Profile view bands and band sets
- Projecting objects to profile views
- Multiple profile views
- Linked profiles

7. 3D Corridors

- What is a Civil 3D corridor?
- Assemblies, sub-assemblies, links, points, and shapes
- Creating an assembly
- Creating a simple corridor
- Corridor targeting
- Corridor surfaces
- Creating an advanced corridor: Cul-de-sac
- Intersection objects
- Bringing it all together

8. Cross-Sections

- Sample lines, cross-sections, section views, and relations
- Creating sample lines and sections
- Creating multiple section views
- Code set styles
- Labeling section views
- Project objects to section view

9. Gravity Pipe Networks

- Understanding parts lists
- Creating a pipe network
- Editing a pipe network: Plan
- Adding pipe network to profile view
- Labeling pipe network
- Editing a pipe network: Profile
- Showing crossing pipes
- Interference checking

10. Pressure Part Networks

- Understanding pressure parts
- Creating a pipe network
- Adding pipe network to profile view
- Editing a pipe network: Profile

11. Feature Lines

- Feature lines and sites
- Creating a feature line
- Creating a feature line from object
- Editing a feature line geometry
- Editing a feature line elevations
- Relative feature lines

12. Grading Objects

- Grading criteria sets
- Creating grading objects

- Creating grading infills
- Editing grading objects
- Creating grading transitions

13. Share Your Data

- What are data shortcuts?
- See the working folder and data shortcut project paths
- Sharing data
- Referencing data
- Workflow best practice

14. Plan Production Tools

- Creating view frames
- Creating sheets
- Save Creating sheets