

# Civil 3D Previous Experience Fast-Track Program

Build on your existing AutoCAD skills to design and coordinate civil engineering projects using Civil 3D. This program teaches how to develop roads, highways, railways, bridges, and tunnels through hands-on, project-based learning.

Group classes in Live Online and onsite training is available for this course.

For more information, email [partnerships@vdc.edu](mailto:partnerships@vdc.edu) or visit:

<https://vdc.nobledesktop.com/courses/civil-3d-previous-experience-fast-track>



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## Course Outline

This package includes these courses

- Intermediate Civil 3D: Surveying and Mapping (30 Hours)
- Intermediate Civil 3D: Transportation Design (30 Hours)
- Intermediate Civil 3D: Land Development (30 Hours)

### Intermediate Civil 3D: Surveying and Mapping

In the Intermediate Civil 3D: Surveying and Mapping course, students create, label, and organize points, prepare key sets, and manage parcel and surface data within Civil 3D. The course walks through the process of performing survey imports, subdividing parcels, and modifying their display styles.

- Create, Label, and Organize Points into Groups: Learn how to create and label points, then organize them into point groups for easier management in Civil 3D. This will help you streamline the process of dealing with large survey datasets.
- Prepare Description Key Sets and Linework Code Sets: Develop Civil 3D description key sets, linework code sets, and figure prefix databases. These tools are essential for organizing and efficiently processing survey data.
- Perform Survey Imports & Subdivide Parcels: Gain skills in importing survey data and creating parcels. Learn to subdivide parcels, modify display styles, and label parcel areas and segments for accurate land design.
- Create TIN Surfaces and Edit Definitions: Learn how to create and edit TIN surfaces in Civil 3D, label surfaces, and make necessary modifications to surface definitions for accurate terrain modeling.

### Intermediate Civil 3D: Transportation Design

In this course you will become familiar with alignments, surface profiles, design profiles and view windows, assemblies, corridors, intersections, sample lines, cross sections, and 3D visualization.

- Create multiple types of alignments
- Develop surface and design profiles

- Adjust profile view windows
- Label both alignments and profiles
- Build corridors with the required sub-elements and create a cul-de-sac
- Create an intersection corridor and create sample lines along a corridor
- Display cross sections
- Visualize a roadway in a 3-dimensional drive through

## **Intermediate Civil 3D: Land Development**

In this course you will build drawing template files, utilize data shortcuts, work with feature lines, learn about site interactions, create grading groups, lay out pipe networks, and draft pressure networks.

- Create multiple Civil 3D object and label styles
- Develop a custom drawing template file
- Manage data shortcuts
- Create and edit feature lines and grading groups
- Learn about pipe and pressure parts catalogs
- Layout pipe and pressure networks
- Annotate pipe and pressure networks
- Create a custom drawing sheet