COURSE SYLLABUS

Civil 3D Certification Course Online

Enhance your Civil 3D skills and prepare for the Autodesk Civil 3D Certification exam with self-paced training and advanced techniques in civil engineering design.

> Group classes (Live Online) and onsite training are available for this course. For more information, email partnerships@vdci.edu or visit: https://vdci.edu/courses/civil-3d-certification-course



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Course Outline

This package includes these courses

- Surveying & Mapping Civil 3D Course Online (30 Hours)
- Transportation Design Civil 3D Course Online (30 Hours)
- Land Development Civil 3D Course Online (30 Hours)

Surveying & Mapping Civil 3D Course Online

In the Intermediate Civil 3D: Surveying and Mapping course, students learn how to manage survey data by creating, labeling, and organizing points, preparing key sets, and working with parcel and surface data in Civil 3D. The course guides students through importing survey data, subdividing parcels, and adjusting display styles to support professional surveying and mapping workflows.

- Create, label, and modify points, then organize them into point groups
- Prepare Civil 3D description key sets, linework code sets, and figure prefix databases
- Perform survey imports and create and subdivide parcels
- Modify parcel display styles and label parcel areas and segments
- Create parcel tables and generate a TIN surface
- Label surfaces and edit surface definitions
- Perform surface analysis

Transportation Design Civil 3D Course Online

This Civil 3D course is designed for professional designers, engineers, contractors, and others looking to advance their careers or expand their employment opportunities. Focusing on intermediate civil engineering tools, the course introduces transportation design workflows in Civil 3D, including alignments, profiles, corridors, intersections, cross sections, and 3D visualization used in real-world roadway design.

- Create multiple types of alignments

- Develop surface profiles and design profiles
- Adjust and manage profile view windows
- Label alignments and profiles
- Build corridors with required sub-elements, including a cul-de-sac
- Create intersection corridors and generate sample lines along corridors
- Display and review cross sections
- Visualize roadway designs with a 3D drive-through

Land Development Civil 3D Course Online

In this Civil 3D course, you'll learn land development design tools and workflows used in professional projects, including drawing templates, data shortcuts, feature lines, grading groups, pipe networks, pressure networks, and paper space. Designed for designers, engineers, contractors, and others seeking career advancement or transition, the course focuses on building practical CAD skills within the Civil 3D environment.

- Create and apply multiple Civil 3D object and label styles
- Develop a custom drawing template file
- Manage data shortcuts for efficient project coordination
- Create and edit feature lines and grading groups
- Work with pipe and pressure parts catalogs
- Lay out and annotate pipe and pressure networks
- Create a custom drawing sheet for final deliverables