COURSE SYLLABUS

Civil 3D Certification Online

Boost your Civil 3D expertise and get ready for the Autodesk Civil 3D Certification exam through hands-on training and advanced civil engineering design techniques.

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



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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 this Civil 3D course, you'll gain hands-on experience with the surveying and mapping features within the Civil 3D environment. You'll learn to work with survey and COGO points, point marker and label styles, point groups, linework code sets, figure prefix databases, survey imports, parcels, sites, surface labels, and surface analysis.

- Create, Label, and Organize Points: Learn to create and label points, organizing them into groups for efficient management of large survey datasets in Civil 3D.
- Develop Description Key Sets and Linework Code Sets: Build Civil 3D description key sets, linework code sets, and figure prefix databases to streamline the processing of survey data.
- Perform Survey Imports and Subdivide Parcels: Gain expertise in importing survey data, creating and subdividing parcels, and labeling parcel areas and segments for accurate land design.
- Create and Edit TIN Surfaces: Learn to create and modify TIN surfaces in Civil 3D, apply surface labels, and adjust surface definitions for precise terrain modeling.

Transportation Design Civil 3D Course Online

This Civil 3D course is designed for professionals in design, engineering, and construction looking to enhance their skills and career prospects. Focusing on intermediate civil engineering tools within Civil 3D, the course will familiarize you with transportation design elements, including alignments, surface profiles, design profiles, view windows, assemblies, corridors, intersections, sample lines, cross sections, and 3D visualization.

- Create various types of alignments for transportation projects.
- Develop surface and design profiles for accurate design and planning.

- Adjust profile view windows for better visualization.
- Label both alignments and profiles for easy reference.
- Build and customize corridors with necessary sub-elements, including cul-de-sacs.
- Design intersection corridors and create sample lines along the corridors.
- Display cross sections for detailed project analysis.
- Visualize a roadway in a 3D drive-through for enhanced presentation.

Land Development Civil 3D Course Online

In this Civil 3D course, you will explore key land development design elements and commands within the Civil 3D environment. You'll gain hands-on experience with drawing template files, data shortcuts, feature lines, grading groups, pipe networks, and pressure networks. This course is designed for professional designers, engineers, contractors, and anyone seeking career advancement or transitioning into the field with enhanced CAD skills.

- Create and label multiple Civil 3D objects and styles.
- Develop a custom drawing template file for efficient workflows.
- Manage and utilize data shortcuts for project coordination.
- Create and edit feature lines and grading groups for accurate design.
- Explore pipe and pressure parts catalogs for system design.
- Lay out and configure pipe and pressure networks for infrastructure projects.
- Annotate pipe and pressure networks to ensure clear documentation.
- Create customized drawing sheets tailored to your project needs.