

Duration | 3 Days

Description:

This hands-on foundation-level course covers the essentials of AutoCAD Civil 3D. Students learn how to work with point data in AutoCAD Civil 3D, how to create and analyze surfaces, how to develop a site, how to model roads, corridors and piping networks, how to work with survey data and how to import and export data. Hands-on exercises throughout the course explore how to create 2D and 3D production drawings.

Prerequisites:

Before starting this course, students should have a working knowledge of AutoCAD and civil engineering principles and processes. It is also recommended that the student have a working knowledge of Microsoft Windows XP, or Microsoft Windows 2000.

Objectives:

The primary objective of the course is to familiarize students with the concepts and applications of the essential functions of AutoCAD Civil 3D.

Upon completion of the course, the student will be able to:

- Describe the AutoCAD Civil 3D working environment.
- Use Survey functionality in Civil 3D.
- Create and manage points.
- Create and edit surfaces.
- Create, edit, and label sites and parcels.
- Create and label alignments and create tables.
- Create surface profiles, profile views, and layout profiles. Edit profile geometry and label profiles and profile views.
- Create assemblies, corridor models, and corridor surfaces.
- Create feature lines, interim and final grading surfaces, and calculate quantities.
- Create, edit, and label pipe networks, and design storm sewer networks.
- Design criteria-based alignments, apply superelevation, and create offset alignments.
- Create transportation assemblies, corridors, and corridor surfaces. Create intersections and model road designs in 3D.
- Calculate corridor quantities, create quantity reports, and create section views.
- Produce plans, work with data shortcuts and reference objects and calculate quantity takeoff.

Training Facilities

Virginia Beach, VA
Richmond, VA
Roanoke, VA

Inlet Technology

192 Ballard Court
Suite 306
Virginia Beach, VA
23462

Ph: 757.496.2323
Fax: 757.496.2424

Duration | 3 Days

Course Outline:

AutoCAD Civil 3D Environment

- The User Interface
- Examining Toolspace
- Creating Objects, Object Styles, and Label Styles
- Creating Drawing Templates
- Creating Reports

Working with Survey

- Creating Survey Databases
- Creating Survey Networks
- Creating Figure Styles and Prefixes
- Importing Survey Data
- Working with Survey Data

Points

- Importing and Creating Points
- Managing Points

Surfaces

- Creating Surfaces
- Modifying Surfaces
- Creating Surface Styles

Site Design - Parcels

- Creating Sites
- Creating Right-of-Way Parcels
- Creating Parcels
- Editing Parcels
- Labeling Parcel Segments and Creating Tables

Site Design - Alignments

- Creating Alignments from Objects
- Labeling Alignments and Creating Tables

Site Design - Profiles

- Creating Surface Profiles and Profile Views
- Creating Layout Profiles
- Editing Profile Geometry
- Labeling Profiles and Profile Views

Training Facilities

Virginia Beach, VA
Richmond, VA
Roanoke, VA

Inlet Technology

192 Ballard Court
Suite 306
Virginia Beach, VA
23462

Ph: 757.496.2323
Fax: 757.496.2424

Duration | 3 Days

Site Design - Assemblies and Corridors

- Creating Assemblies
- Creating Corridor Models
- Creating Corridor Surfaces

Site Design - Grading and Quantities

- Creating Feature Lines
- Creating Interim Grading Surfaces
- Creating Final Grading Surfaces and Calculating Volumes
- Labeling Final Grading Surface

Site Design - Pipes

- Creating Pipe Networks
- Drawing and Editing Pipe Networks
- Labeling Pipes
- Designing Storm Sewer Networks

Transportation - Alignments

- Designing Criteria-Based Alignments
- Applying Superelevation
- Creating Offset Alignments

Transportation - Assemblies and Corridors

- Creating and Modifying Transportation Assemblies
- Creating Transportation Corridors
- Creating Transportation Corridor Surfaces
- Creating Intersections
- Modeling Road Designs in 3D

Transportation - Sections and Quantities

- Creating Sample Lines
- Calculating Corridor Quantities
- Creating Quantity Reports
- Creating Section Views

Manage Data

- Plan Production
- Working with Data Shortcuts and Reference Objects
- Calculating Quantity Takeoff Using Pay Items

Training Facilities

Virginia Beach, VA
Richmond, VA
Roanoke, VA

Inlet Technology

192 Ballard Court
Suite 306
Virginia Beach, VA
23462

Ph: 757.496.2323
Fax: 757.496.2424

Inlet Training Class Registration Form



Duration | 3 Days

Customer Information

Company _____
Address _____
City _____ State _____ Zip _____
Primary Contact _____
Telephone _____ eMail _____

Training Class Information

Class Name _____
Class Start Date _____ Duration (# of days) _____
Student 1 _____ eMail _____
Student 2 _____ eMail _____
Student 3 _____ eMail _____
Student 4 _____ eMail _____
Student 5 _____ eMail _____
Student 6 _____ eMail _____
Student 7 _____ eMail _____
Student 8 _____ eMail _____
Student 9 _____ eMail _____
Student 10 _____ eMail _____

Payment Information

CREDIT CARD

Type (Circle One) Visa Mastercard American Express _____
Credit Card Number _____
Expiration Date _____ 3-4 digit Verification Code _____
Name on Card _____ Amount to be Charged \$ _____
Billing Address _____

CHECK

Check Number _____ Amount \$ _____

PURCHASE ORDER

PO Number _____ Amount \$ _____
Purchasing Contact _____ Telephone _____
e-Mail _____

NOTE: Please fax copy of PO with Registration Form

Training Facilities

Virginia Beach, VA
Richmond, VA
Roanoke, VA

Inlet Technology

192 Ballard Court
Suite 306
Virginia Beach, VA
23462

Ph: 757.496.2323
Fax: 757.496.2424