

Civil 3D 2011 Roadway Design



Duration | 2 Days

Description:

This course guides you through the roadway design process. The primary focus of this course is to teach a qualified engineer or designer how to use Civil 3D as a tool in the design solution to perform common engineering tasks more accurately and in less time.

This course is not intended to teach civil engineering principles or to recommend one engineering procedure over another. It is understood that design procedures can and do vary by region, organization, and even individual engineer. Also, due to time constraints, it is not possible to show all steps required to refine the design or to create many of the drafting components that are required for a final plan set. The features of Civil 3D used in the exercises can be applied to these tasks, enabling you to generate a plan-ready final design.

Prerequisites:

This course is designed for civil engineers and designers with a firm grasp of the fundamental features of AutoCAD Civil 3D and civil engineering principles.

It is recommended that you have:

- In-depth knowledge of essential Civil 3D features and functionality
- Experience with civil engineering processes and terminology.
- Working knowledge of Microsoft Windows.

Objectives:

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

Upon completion of the course, the student will:

- Examine a roadway design workflow and the completed drawing files and review the project scope, design parameters, and criteria for the roads being designed in this guide.
- Create, evaluate, and edit horizontal alignments and apply and edit superelevation for horizontal alignments for a highway project.
- Create, evaluate, and edit design profiles for a highway project.
- Create, view, and edit corridors to model roadways for highway projects.
- Create and edit a primary road intersection for a highway project.
- Compute end area volume quantities and use pay items to calculate a quantity takeoff for a highway project.

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

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Course Outline:

Introduction to Roadway Design

- Reviewing Roadway Design Project Data

Designing Horizontal Alignments

- Creating Horizontal Alignments
- Evaluating and Editing Centerline Alignments
- Applying and Editing Superelevation

Designing Profiles

- Creating Profiles
- Evaluating and Editing Design Profiles

Modeling Corridors

- Reviewing Design Considerations
- Creating Reconstructed Roadway Assemblies
- Creating Mill and Overlay Roadway Assemblies
- Creating Roadway Corridors
- Viewing and Editing Corridors

Designing Intersections

- Creating Intersections with the Wizard
- Editing Intersections

Computing Quantities

- Computing End Area Volumes
- Calculating Quantity Takeoff Using Pay Items

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Inlet Training Class Registration Form



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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

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