

Serie de Cursos:



AutoCAD Civil 3D

Objetivo General:

Análisis topográfico volumétrico de terrenos, vialidad, alcantarillado pluvial y más

Niveles:

Se ofrecen en 3 Niveles se recomienda tomarlos en cualquier secuencia Según la especialidad

Duración Total:

48 Horas en 12 sesiones de 4 horas



AutoCAD Civil 3D® Essentials Nivel I de III

Duración: 16 Horas / 4 sesiones de 4 horas

Horario: Común Acuerdo

Objetivos: Levantamientos topográficos, superficies, curvas de nivel, calculo de volúmenes, corredores, lotificación y redes de drenaje

Prerequisitos: AutoCAD Essentials o experiencia equivalente.

Contenido del curso:

1. Working with Workspaces and Point Data

Working with Civil 3D Workspaces, Creating Points, Viewing and Editing Point Data
Managing Points, Changing Point Styles, Creating Label Styles, Transp. Commands

2. Surface Modeling

Creating Surfaces from LandXML Files, Editing Surface Triangles, Creating Breaklines
Analyzing Surfaces, Creating Volume Surfaces, Viewing Surfaces in 3D, Surf. Output

3. Site Development

Creating Sites, Creating Parcels, Changing Parcel Styles and Display Order
Labeling Parcel Segments, Creating Parcel Tables and Reports

4. Road Design

Creating and Editing Alignments, Creating Profiles, Creating a Profile by Layout
Creating Sections

5. Corridor Modeling, Subassemblies, and Cross Sections

Creating Simple Corridors, Creating Assemblies, Creating Complex Corridor Models
Editing Corridor Models, Calculating Corridor Volumes, Corridor Cross Sections

6. Grading

Introduction to Grading, Creating Grading Objects, Creating a Grading Solution with
Multiple Objects, Generating Quantity Takeoff

7. Sharing Data

Importing Land Desktop Project Data, Exporting AutoCAD Civil 3D Data
Working with Autodesk Vault and AutoCAD Civil 3D Files, Creating Sheet Sets

8. Pipe Networks

Creating Pipe Networks, Editing Pipe Networks in Plan View
Drawing Pipe Networks in Profile and Section Views, EditPipe Networks Profile View
Lesson: Creating Part Rules

9. Survey

Importing Survey Data, Working with Survey Data

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Curso 2 de 3:

AutoCAD Civil 3d **Residential Grading** **Nivel II de III**

Objetivo Nivel:

AutoCAD® Civil 3D® to complete the engineering tasks on a residential grading design..

Requisitos:

Curso de AutoCAD Civil 3D Nivel I ó experiencia equivalente

Duración de este nivel: 16 horas / 4 días de 4 horas

Contenido Curso:

1. Examining Site Conditions

Examining Existing Site Conditions, Determining Slope and Flow Patterns
Labeling Elevations at Key Locations, Defining the Limits of Grading Activity

2. Creating Detention Basins

Creating, Grading, and Analyzing Detention Basins, Creating Detention Basins
Grading Detention Basins, Analyzing Detention Basin Earthwork Volumes

3. Designing Roadway Grading

Designing Prefinal Roadway Grading, Creating an Existing Ground Profile
Creating a Finished Ground Profile, Roadway Cross Sections, Road Surface Model

4. Working with Earthwork Volumes

Calculating Prefinal Earthwork Volumes, Refining the Corridor Model and Knuckle
Design, Creating Prefinal Earthwork Calculation Surfaces, : Adjusting the Corridor
Model, Calculating Earthwork Volumes

5. Balancing Earthwork

Balancing Earthwork, Refining the Final Grading Design, Modifying Basin Grading

6. Refining Surface Grading

Refining Final Surface Grading, Setting Spot Elevation Labels, Elevations,
Adjusting the Corridor Surface Model, : Establishing Lot Grade and Top of Foundation

7. Creating and Grading Swales

Grading Rear-Yard Perimeter Swale, Analyzing Prefinal Surface Flow Patterns
Creating a Pad Buffer, Creating a Swale

8. Grading Open Areas

Grading Open Areas, Designing a Detention Basin Overflow Route
Creating Berms, Adding Berms to the Proposed Top Surface

9. Revising the Design

Grading Design, Modifying the Proposed Road Profile, Updating Lot Grading

10. Rendering the Design

Rendering the Design, Analyzing the Slope, Viewing Surfaces in 3D

11. Completing Plans : Labeling and Annotating :Profile, Contours, Profile Sheets

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Curso 3 de 3:

AutoCAD Civil 3d

**Intersecciones, Cul-de-sacs
Nivel II de III**

Objetivo Nivel:

Diseño avanzado: Cul-de-Sacs, Knuckles, Intersection: Peer Roads and documentación

Requisitos:

Curso de AutoCAD Civil 3D Nivel II ó experiencia equivalente

Duración de este nivel: 16 horas / 4 días de 4 horas

Contenido Curso:

1. Creating Cul-de-Sacs

Designing Cul-de-Sacs, Workflow, Guidelines for Designing Cul-de-Sacs, Modeling the Main Road, Corridors, Modeling the Main Road, Design a Main Road Section, Cul-de-Sac Bulb, Layout Profiles, Creating a Corridor Surface and Cul-de-Sac Island. Corridor Surfaces, Dynamic Corridor Modeling, Label Styles.

2. Creating Knuckles

Designing Knuckles, Assemblies, Preparing for Knuckle Modeling, Corridor Parameters, Roadway Revisions.

3. Creating an Intersection: Peer Roads

Designing an Intersection for Peer Roads, Designing Intersection Curb, Curb Returns, Regions and Targets, Establish Regions and Model the Corridor for Peer Roads.

4. Creating an Intersection: Side Street Joins Main Road . . 105

Designing an Intersection for a Side Street and Main Road, Intersection Curb Returns, Joins Main Road

5. Working with Plan Production Objects

Working with Plan Production Objects, Creating Plan Production Objects Editing View Frames and Match Lines,

6. Working with Sheets

Creating Sheets, Preparing for Sheet Creation, Using the Create Sheets Wizard

7. Finalizing Plan Sets

Working with Sheets, Customizing Sheets, Comparing Annotation Options Managing Data, Working with Sheet Sets

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