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Curso: **AutoCAD® Civil 3D® Residential Grading**
Preparando Terrenos Residenciales.

Duración: 12 Horas / 4 sesiones de 3 horas
Horario: Común Acuerdo
Descripción: In this course, students use AutoCAD® Civil 3D® to complete the engineering tasks on a residential grading design. This course guides students through one possible grading design process from examination of existing site conditions to a final grading solution.

Prerequisitos: AutoCAD Civil 3D Essentials o experiencia equivalente.

Contenido del curso:

Examining Site Conditions
Lesson: Examining Existing Site Conditions
Lesson: Determining Slope and Flow Patterns
Lesson: Labeling Elevations at Key Locations
Lesson: Defining the Limits of Grading Activity
Creating Detention Basins
Lesson: Creating, Grading, and Analyzing Detention Basins
Lesson: Creating Detention Basins
Lesson: Grading Detention Basins
Lesson: Analyzing Detention Basin Earthwork Volumes
Designing Roadway Grading
Lesson: Designing Prefinal Roadway Grading
Lesson: Creating an Existing Ground Profile

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Lesson: Creating a Finished Ground Profile
Lesson: Defining Roadway Cross Sections
Lesson: Creating a Road Surface Model

Working with Earthwork Volumes

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

Balancing Earthwork

Lesson: Balancing Earthwork
Lesson: Refining the Final Grading Design
Lesson: Modifying Basin Grading

Refining Surface Grading

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

Creating and Grading Swales

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

Grading Open Areas

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

Revising the Design

Lesson: Revising the Grading Design
Lesson: Modifying the Proposed Road Profile
Lesson: Updating Lot Grading

Rendering the Design

Lesson: Rendering the Design
Lesson: Analyzing the Slope
Lesson: Viewing Surfaces in 3D

Completing Plans

Lesson: Labeling and Annotating the Plan and Profile
Lesson: Labeling Contours
Lesson: Creating Profile Sheets