

Autodesk Civil 3D Grading Training Course

Course Overview

Course Length: 8-Hours

- 8-Hours – 4 x 2-hour training sessions
- Remote training over MS Teams
- Sessions are recorded and download links for each session are provided for future use
- Training for up to 1-3 people
- Sessions can start within 7 days upon ordering
- Flexible sessions (for example, consecutive or Monday, Wednesday, Friday)
- Courses are private and topics can be customised to suit
- Includes Certificate of Completion

The Autodesk Civil 3D Grading Training Course provides practical instructor-led training for civil designers, civil engineers, land development professionals, surveyors, and infrastructure consultants who want to develop grading design skills using Autodesk Civil 3D.

This Civil 3D Grading Course focuses on the tools and workflows required to create grading designs for residential, commercial, industrial, and infrastructure projects. Participants learn how to create and manage feature lines, grading objects, grading criteria, grading groups, grading surfaces, and earthworks models while applying industry best practices for site design and land development.

Delivered through live remote training sessions over Microsoft Teams, this Civil 3D Grading Training course combines practical exercises with real-world grading workflows to help participants confidently create grading solutions that satisfy design requirements, drainage constraints, and construction objectives.

Whether you are searching for Civil 3D Grading Training, a Civil 3D Grading Course, or a Civil 3D Grading Class, this training provides practical grading design skills that can be immediately applied to land development and infrastructure projects.

Topics Covered

- Feature line creation and management
- Grading criteria
- Grading groups
- Site grading workflows
- Surface creation and analysis
- Earthworks modelling
- Daylight grading
- Retaining walls and benches
- Drainage considerations
- Site optimisation
- Volume calculations

- Land development workflows

Prerequisites

Experience with AutoCAD® or AutoCAD-based products and a sound understanding and knowledge of civil engineering terminology.

Training Guide Contents

Chapter 1: Introduction to Grading

- 1.1 Overview
- 1.2 Tools in Autodesk Civil 3D
- 1.3 Settings and Defaults
- 1.4 Feature Line Styles
- 1.5 Grading Group Styles
- 1.6 Grading Criteria Sets
- 1.7 Surface Styles
- 1.8 Sites Overview
- 1.9 Autodesk Civil 3D Projects
- 1.10 Using Data Shortcuts for Project Management

Chapter 2: Parcel Grading

- 2.1 Setting Parcel Line Elevations
- 2.2 Retaining Walls
- 2.3 Editing Surfaces
- 2.4 Feature Line Interactions with Parcel Lines

Chapter 3: Building Pad Design

- 3.1 Feature Lines Overview
- 3.2 Create Feature Lines from Objects
- 3.3 Grading Creation Tools
- 3.4 Editing the Grading
- 3.5 Grading Volume Tools

Chapter 4: Parking Lot Design

- 4.1 Draw Feature Lines
- 4.2 Create a Temporary Surface
- 4.3 Edit Feature Line Geometry
- 4.4 Copy or Move Feature Lines from One Site to Another
- 4.5 Create a Transitional Grading Group
- 4.6 Create a Grading Surface
- 4.7 Add Feature Lines to a Grading Surface

Chapter 5: Parking Lot Option

- 5.1 Assembly Overview
- 5.2 Modifying Assemblies
- 5.3 Creating a Corridor
- 5.4 Corridor Properties
- 5.5 Corridor Editing
- 5.6 Reversing Feature Lines
- 5.7 Corridor Surfaces

Chapter 6: Pond Design

- 6.1 Feature Line Review
- 6.2 Edit Elevations
- 6.3 Create Feature Lines from Corridors
- 6.4 Edit Geometry
- 6.5 Creating Complex Grading Groups
- 6.6 Pond Staging Volumes

Chapter 7: Combining Surfaces

- 7.1 Autodesk Civil 3D Projects
- 7.2 Sharing Data
- 7.3 Data Shortcuts