



# Civil 3D Intermediate Grading Training

## 2-day class

This hands-on next-level course covers the site grading techniques within Civil 3D. Your instructor will teach you how to work with feature lines, grading objects and corridors to create detention basins, parking lots, building pads and other site features. This course is designed to teach practical examples of site grading within Civil 3D.

- **Site Grading Overview**
  - Grading applications
  - Styles, Criteria Sets and Command Settings
- **Feature Lines**
  - Features from XREFs
  - Controlling elevation along Feature Lines
  - Controlling horizontal geometry of Feature Lines
- **Building Pads**
  - Grading Groups, Infills and Settings
  - Grading Object editing
  - Foundation Volume Calculations
- **Grading Optimization**
  - Optimization Workflow
  - Use cases for Optimization
  - Optimization Zones
  - Exclusion Zones
  - Balancing Weighted Objectives
- **Parking Lots**
  - Drainage Concept Surfaces
  - Stepped Offsets
  - Grading Transitions
  - Feature Lines vs Corridors
  - Material and Volume Quantities
- **Basins / Ponds**
  - Complex Grading Groups
  - Pond / BMP Staging Volumes
- **Surface Management**
  - Single Grading file vs Data Shortcuts
  - Project data sharing for outside subconsultants
  - Managing Volumes

