

## Course Details:

**Duration:** 1 Day

**Prerequisite:** Civil 3D Fundamentals

**Courseware:** Included

**Achievement:** Certificate

**Time:** 8:30 a.m. – 4:30 p.m.

## General Information:

**Locations:** All courses are offered online, on-site, or in-person at SolidCAD training facilities across Canada, including:

Burnaby, BC  
Calgary, AB  
Edmonton, AB  
Regina, SK  
Winnipeg, MB  
Richmond Hill, ON  
Ottawa, ON  
Montreal, QC  
Quebec City, QC  
Hanwell, NB  
Halifax, NS

## Pricing, Registration &

**Scheduling:** Please contact our training coordinator at 1-877-438-2231 x227 or via email at [training@solidcad.ca](mailto:training@solidcad.ca)

**Complete course listing:**

[www.solidcad.ca/training](http://www.solidcad.ca/training)

## Course Description:

This course covers how to complete grading tasks quicker and with better optimization with the assistance of the Grading Optimization tool – an iterative grading design AI.

It is an excellent follow-up to Civil 3D Fundamentals or Civil 3D for Grading and provides instruction on an innovative tool that can significantly accelerate preliminary grading and minimize grading project costs.

Users will learn general grading skills, including how to setup the initial surfaces required for grading, and to setup profiles and viewports to better evaluate the graded surface. The use of the Grading Optimization tool will be covered through several projects including a pond, a parking lot, and a parcel with foundation. The results will be evaluated to guide the next iteration of design, including stage volume calculation.

## Learning Objectives:

- Create interim grading surfaces
- Setup profiles and viewports to grading results
- Design ponds, parking lots and parcels with building pads
- Control drain lines and low points
- Setup curbs and retaining walls
- Setup foundations and reveals
- Setup driveways and sidewalks
- Fine tune individual grading areas
- Understand when intended design and iterative solutions converge
- Calculate stage volumes