



SITECH Midway Winter Training Courses 2025

SPS and On Machine Specific Training Courses

INTRODUCTION TO TRIMBLE SITEWORKS AND GNSS

\$250/Person

In this class we'll talk about GNSS (GPS) accuracies and how it all works, take a dive into the Trimble Siteworks software, and perform basic tasks within the software.

- Understanding GNSS and how it works
- Understanding and navigating the Siteworks software
- Understanding Files and how they are managed within the software.
- Site calibrations
- Basic layout functions
- Basic topo and volume functions
- Troubleshooting

Note: Please dress for the weather... There will be an outdoor, hands-on portion of this class if weather conditions allow.

TRIMBLE MACHINE CONTROL FOR GNSS AND EARTHWORKS

\$250/Person

In this class we will dive into the workings of Earthworks on machines. We will discuss infield designs, usage of the system and troubleshooting issues. From the beginning setup to more advanced uses of the software.

- Understanding GNSS and how it works
- Understanding different Trimble components and how they are utilized.
- Utilizing and navigating the Earthworks software
- Understanding files and how they are managed within the software.
- Utilizing infield designs
- Troubleshooting

TBC Specific Training Courses

TBC Field Data for Beginners

\$250/Person

Minimum License – TBC V5.80 Viewer (Unlicensed Free Version). Bring Your Own Computer.

No Prerequisite

For the field/office personnel who would like to learn the introductory Trimble Business Center Software.

- Covering User Interface Basics
- Basic Settings and Functions
- Quick Access Toolbars, Ribbon tabs, Commands
- Setting up and Saving a Template
- Importing and Viewing Electronic Data
- Creating and Editing Layers Using Layer Manager
- Organizing and Re-layering Electronic Data
- Changing and Editing Line Colors and Attributes
- Exporting to SPS, Siteworks and Earthworks Applications

TBC Basic Site Data Prep

\$300/Person

Minimum License – TBC V5.80 Site + Field Subscription. Bring Your Own Computer.

No Prerequisite – TBC Field Data for Beginners, strongly recommended.

Learn basic Data Prep workflows to create a finished grade surface for SPS and Machine Control

- Setting up the Trimble User Profile Manager
- Sharing TBC Subscriptions Seats with Different Users
- Utilizing The Project Cleanup Command
- Clean Up Existing CAD Data (Contours, Pads, Ponds, Curbs, Parking Lots, Etc).
- Categorizing and Standardizing Layers
- Changing and Assigning 3D Elevations to 2D Contours
- Basic CAD and Line-string Editing and Creation
- Offsetting, Joining, Trimming and Breaking Contours & Line-strings
- Creating a Triangulated Surface Model
- Adding Break-lines, Surface Members and Surface Boundaries to Triangulated Surfaces
- Analyzing a Detailed Surface Model and Fine-tuning for a Better Surface Triangulation
- The Differences Between a Default, State Plane and Local Coordinate System
- Toggling Background Maps to Road and Google Earth Views
- Creating a Cut/Fill Map from Existing vs Proposed Triangulated Surfaces
- Assigning Contours and Labels to Cut/Fill Maps
- Running Basic Earthwork Quantity Reports (Surface to Surface Comparison)

TBC PDF Import, Cleanup and Digitizing

\$250/Person

Minimum License – TBC V5.80 Construction Subscription. Bring Your Own Computer.

Prerequisite - TBC Basic Site Data Prep

Import a PDF, Place, Georeference, Scale, and Digitize PDF Files to Prepare for Data Prep Surface Modeling and Site Takeoff Quantities

- Verifying the Difference Between a Raster and Vectorized PDF file
- Georeferencing and Scaling a PDF Drawing into TBC
- Importing and Cleanup of Data Attached to a Vector PDF
- Re-layering Objects and Standardizing Vector Layers
- Reviewing Georeferenced Image Settings
- Covering the Difference Between Placing and Georeferencing an Image
- Georeferencing and Placing a Raster PDF file
- Creating 3D Contours, Pads and Linestrings by Digitizing a Raster PDF file

TBC Site Takeoff

\$350/Person

Minimum License – TBC V5.80 Construction Subscription. Bring Your Own Computer.

Prerequisite – TBC PDF Import and TBC Basic Site Data Prep

Continuation of PDF Import and Data Prep. Running Simple Site Takeoff Reports with Prepared Data

- Determining Designated Engineered Subgrades and Materials
- Creating Site Materials
- Creating Site Improvements Based on Designated Materials and Assigned Thicknesses
- Identifying Site Regions for Material Site Improvements (Subgrade Adjustments)
- Validating Material Site Improvement Areas
- Assigning Topsoil Depths and Designated Thickness Areas
- Creating Subgrade Surface Models Based on Assigned Material Site Improvements
- Creating Detailed Cut/Fill Maps Incorporating Subgrade MSI's
- Running Earthwork Summary Reports
- Creating More Detailed Custom Takeoff Reports

TBC Working with Corridors

\$350/Person

Minimum License – TBC V5.80 Construction Subscription. Bring Your Own Computer.

Prerequisite – TBC Basic Site Data Prep

Learn how to create a corridor utilizing a given alignment and generate corridor templates based on different instruction types

- Creating template nodes
- Creating corridor templates
- Using multiple instruction types
- Using station/slope tables
- Defining subgrades
- Utilizing Catch Point option to tie into a reference surface

To sign up, please send an email to: Kaileigh.bobb@sitechmidway.com

*class minimum of 4 people, if not enough people sign up within 48 hours of the class, it will be cancelled and customers will have the option to reschedule to a later date.

*customers will only be charged after they have completed the course. If you are unable to make the class you will not be charged but please let us know if you will not be attending