TOPCON AUTODESK BLUEBEAM

TECHNICAL TRAINING CATALOG

SEP-DEC 2019

TOPCON SOLUTIONS Store

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SOLUTIONS IS OUR MIDDLE NAME

Topcon Solutions Store is a collaboration of successful independent Topcon dealers, united to supply our customers with the best Construction, Survey, Aerial Mapping and Software solutions. With our combined resources and experience, we are the ideal solution for your business' needs. We are the only positioning professionals in the industry who provide the total solution! Whether it's GeoPositioning, Construction or Agriculture needs, our full line of Topcon & Autodesk products is the complete solution.

We offer 13 convenient locations spanning from Washington to Maine, no matter where your job takes you, we've got you covered!

- Annapolis Jct, Maryland
- Carol Stream, Illinois
- Concord, New Hampshire
- Hartford, Connecticut
- Indianapolis, Indiana
- Kansas City, Missouri
- Niles, Michigan
- Portland, Oregon
- Saxonburg, Pennsylvania
- Seattle, Washington
- St. Louis, Missouri
- Stow, Massachusetts
- Waukesha, Wisconsin

Our Technical Support team is available Monday-Friday via phone, email and online forms to address your product or workflow challenges. Topcon Solutions training & support is unmatched when it comes to interoperability and workflows between Topcon Positioning equipment and Autodesk A/E/C software.

Each location houses a full service center and is home to Topcon Warranty Repairs. We service all major brands and offer a full rental line so you can remain in production while your technology is being serviced.

TOPCON CERTIFIED SERVICE & REPAIR CENTER

Our mission is to exceed the expectations of our customers while providing innovative solutions and industry-leading customer service and support.

Our training classes can come to you – Don't see what you need? Or timing isn't just right? Our instructors can come to your office or a city near you. Let's discuss how to increase your team's productivity through training.
(800) 247-1927

CONSTRUCTION & SURVEY

TOPCON POCKET 3D GNSS 2 DAY

This is an introductory hands-on class designed to familiarize new users of Pocket3D to the fundamentals and workflows necessary for everyday field operation. You are encouraged to bring your favorite data collector with Pocket3D and fully charged GPS system. *Length: 2 days*

DATES: Portland | 9/24-25, 12/10-11
Seattle | 10/22-23, 12/3-4
Indianapolis | 9/17-18, 11/12-13

COST: $389 per person

TOPCON 3DMC

This is a fundamental skills class for new Machine Control Operators designed to familiarize users to the basics of RTK GPS, 3DMC user interface, machine interface, calibration and general operation. *Length: 1 day*

DATES: Portland | 9/26, 12/12
Seattle | 10/24, 12/5
Indianapolis | 9/19, 11/14

COST: $300 per person

TOPCON MAGNET FIELD ROBOTICS

This course teaches the fundamental skills every operator will need to become productive using a Conventional or Robotics Total Station. This class will also cover feature coding, mapping, data collection and stakeout.
Length: 2 days

DATES: Portland | 10/1-2, 11/12-13
Seattle | 10/15-16, 12/17-18

COST: $389 per person

TOPCON MAGNET FIELD GPS

This course teaches the fundamental skills every operator will need to become productive in RTK GPS using either a Base/Rover or Network configuration. We will cover feature coding, mapping, data collection and stakeout. *Length: 2 days*

DATES: Portland | 9/10-11, 10/29-30
Seattle | 9/17-18, 11/19-20

COST: $389 per person

FIELD 2 FINISH

This class will teach the basic workflows from complete field set-up and data collection to layout workflows and basic practices. In this class will be using a little bit of both GNSS and Optical equipment to give a good coverage of most equipment. We will be covering feature coding, data collection, data import/export, and layout. *Length: 2 days*

DATES: Indianapolis | 9/24-25, 10/15-16, 11/19-20

COST: $550 per person

QGIS BASICS

This is a fast-paced QGIS introductory class with coverage of basic GIS data principles and workflows using QGIS. We will be using student's laptops for this class. We will cover both installation of QGIS and configuration settings. *Length: 1 day*

DATES: Indianapolis | 11/4

COST: $450 per person

QGIS ADVANCED

This is a fast-paced QGIS advanced class with coverage of database concepts related to GIS data principles and workflows using QGIS with PostGIS/PostgreSQL. We will cover both installation of PostgreSQL/PostGIS and configuration settings. *Length: 1 day*

DATES: Indianapolis | 11/5

COST: $900 per person

MAGNET GNSS

This class is a fast-paced GNSS basics class with coverage of GNSS background, GNSS workflows, setups, and data collecting. We will be using both Network Rovers and Base and Rover setups. We will cover the configurations and settings needed to run both. *Length: 1 day*

DATES: Indianapolis | 9/10, 10/22, 12/17

COST: $300 per person

MAGNET OPTICAL

This class is a fast-paced Optical basics class with coverage of optical equipment, optical setup, workflows, and data collecting. We will be using both conventional and robotic setups. We will cover the configurations and settings needed to run both. *Length: 1 day*

DATES: Indianapolis | 9/11, 10/23, 12/18

COST: $300 per person

MAGNET LAYOUT

This class is a fast-paced layout class with coverage of GNSS Layout, Optical Layout, As-Builts and Plan Entering. We will cover the configurations and settings needed to run both GNSS and Optical Setups. We will be using DWG files and TXT files to bring in data from job sites. *Length: 1 day*

DATES: Indianapolis | 9/12, 10/24, 12/19

COST: $300 per person

MAGNET OFFICE TAKEOFF

This is a five day program designed as a hands-on operational training for MAGNET Office Site and Takeoff. The program covers complete MAGNET Office Site and Takeoff functions, including setting up projects and libraries, importing from third party files and creating and exporting designs. The primary purpose of the program is to give attendees the confidence in using the software to become competent and efficient using workflows from creating or modifying a design to producing a finished and deliverable product, while covering all the key steps along the way. Students of this class will obtain a greater understanding of proper techniques for creating project models and roads. Students will have the ability to go from initial DWG and PDF plans to finished projects that can be exported to the desired data and/or reports.

The program covers all aspects of the MAGNET Takeoff module for both commercial sites and road projects. The class also covers exporting the takeoff reports to the Mass Haul module for project planning. Upon completion of this class, the student will be able to fully utilize the MAGNET Takeoff and Mass Haul modules to accurately define materials, compute quantities, show reporting and accurate planning via Mass Haul diagrams.

Topics to Cover:

- Creating a project
- Settings & Configuration
- Importing PDF files
- Importing Text/CAD files
- Export to the Field
- Model Creation
- Site
- Roading
- Takeoff Module
- Material Library Setup
- Boreholes
- Subgrades
- Data Prep
- DTM Creation
- Volumes
- Cut/Fill

Length: 5 days

DATES: Indianapolis
10/7-11, 12/2-6

COST: $1,495 per person

GENERAL DESIGN & DRAFTING

AUTOCAD® ESSENTIALS

For the beginning AutoCAD user, this hands-on 3 day class introduces the user to AutoCAD. If you are not currently using AutoCAD or using version 2008 or older, this class will get you started. Upon completion, you will be able to use AutoCAD to design and draft in 2D. *Length: 3 days*

DATES: Portland | 10/8-10, 11/5-7, 12/17-19
Seattle | 9/24-26, 10/22-24, 11/25-27
Spokane | 12/17-19

COST: $1,195 per person

AUTOCAD® INTERMEDIATE

This 2 day class introduces the user to features, commands and techniques for becoming more productive when creating, annotating and printing drawings with AutoCAD. *Length: 2 days*

DATES: Portland | 9/4-5, 10/29-30, 12/11-12
Seattle | 11/12-13

COST: $935 per person

BIM

BIM 360 DESIGN COLLABORATION

In this class we will start with building an understanding of the document management platform of BIM 360 and then run through into Design Collaboration. We will focus on the collaboration workflows going from Revit into BIM 360. We will be teaching how to manage models, linking, consuming, package creation, assigning permissions, tracking changes, and many other features. *Length: 1 day*

DATES: Portland 12/18 | Seattle 9/10

COST: $595 per person

NEW

BIM 360 DOCUMENT MANAGEMENT

In this class students will start their journey into the BIM 360 platform. It is essential to start from the ground up, so BIM 360 Docs is where we begin. We will be working from a project administrator position and will focus on this workflow for this class. We will cover the creation of folders, permissions, markups, walkthroughs, managing versions, comparing documents, and many other features. *Length: 1 day*

DATES: Portland 12/19 | Seattle 9/11

COST: $595 per person

NEW

BUILDING DESIGN SOLUTIONS

REVIT® ARCHITECTURE ESSENTIALS

Get introduced to Revit Architecture while learning the fundamental concepts of Building Information Modeling (BIM). This hands-on three day course will teach you how to model essential building elements in 3D such as walls, stairs, doors, windows, etc. You'll also learn how to create schedules, legends, sheets and other views of your model to create a construction document set. *Length: 3 days*

DATES: Portland | 9/3-5, 11/5-7, 12/3-5 Seattle | 10/8-10, 11/12-14, 12/10-12
Spokane | 8/20-22, 10/29-31 Anchorage | 9/24-26

COST: $1,195 per person

REVIT® LEVEL 2

The next progressive step in our Revit® series, this hands-on Intermediate two day course will teach you features that continue to build on concepts introduced in the Revit Essentials classes. Students will learn about Worksharing – where multiple project team members can work on the same project at the same time – Design Options, Phasing, Revision Tracking, and much more. *Length: 2 days*

DATES: Portland 10/15-16 | Seattle 11/5-6

COST: $935 per person

REVIT® ARCHITECTURE FAMILIES

The Family Editor allows Revit users to create components and tags to use in their Revit building project. In this hands-on one day course, you will learn how to model parametric building components in 3D, create intelligent tags, work with a Shared Parameters file, edit wall types, customize railings, and much more. A basic knowledge of navigating Revit projects and the Revit interface is required to take this class. *Length: 1 day*

DATES: Portland 10/22 | Seattle 9/10

COST: $595 per person

REVIT® MEP FAMILIES

The Family Editor allows Revit users to create components and tags to use in their Revit building project. In this hands-on one day course, you will learn how to model parametric building components in 3D, create intelligent tags, work with a Shared Parameters file, place MEP connectors on their content for pipe, duct and conduit connections, and much more. A basic knowledge of navigating Revit projects and the Revit interface is required to take this class. *Length: 1 day*

DATES: Portland 10/23 | Seattle 9/11

COST: $595 per person

CUSTOM REVIT TEMPLATE

AUTODESK® REVIT®

2 Hour Consultation

Schedule your consultation today!
(800) 247-1927

Building up and evolving your template choice wisely can save (or cost) you hours upon hours of time with every single project you work on. In this discussion our technical specialist will:

- Review the differences between Autodesk template choices
- Discuss what to consider when building up your firm's template
- Share best practices to achieve a solid template
- Discuss how to organize your project browser to achieve worry-free design development
- Share what to consider when building up your firm's component library
- Explain how to safely use your AutoCAD 2D details in a Revit project without creating a disaster.

REVIT® MEP ESSENTIALS

Learn the essential functionality of Revit Mechanical, Electrical and Plumbing while learning the fundamental concepts of Building Information Modeling (BIM). This hands-on two day course will teach the students how to navigate, monitor the Architect's changes, create schedules, details, legends, sheets, and other views of your model to create your construction document set.

All students are required to attend Revit MEP Essentials prior to the specialized training class.

REQUIRED:	DATES:	COST:
MEP Essentials	Portland 9/23-24 | Seattle 12/2-3	$945
ENGINEERS & MODELERS	**DATES:**	
Mechanical	Portland 9/25 | Seattle 12/4	$445
Electrical	Portland 9/26 | Seattle 12/5	$445
Plumbing	Portland 9/27 | Seattle 12/6	$445
CONTRACTORS	**DATES:**	
Electrical	Portland 10/1 | Seattle 12/10	$445
Mechanical & Plumbing	Portland 10/2 | Seattle 12/11	$445

ENGINEERS & MODELERS

MECHANICAL

Learn how to place mechanical equipment, air terminals, and then model and connect ductwork in 3D to those essential building components. This hands-on 1-day course will additionally teach the students how to create HVAC systems, define spaces and zones, create hydronic piping systems and produce heating & cooling load calculations and reports. *Length: 1 day*

ELECTRICAL

Learn how to place electrical equipment, lighting fixtures, component devices and then model conduit and cable tray in 3D. This hands-on 1-day course will additionally teach the students how to define spaces for electrical loads and lighting calculations, create panel schedules, create power and switch systems, and then analyze the resulting circuits. *Length: 1 day*

PLUMBING

Learn how to place plumbing fixtures, fittings and accessories, and then model and connect pipe in 3D to those essential building components. This hands-on 1-day course will additionally teach the students how to work with sloped pipe, create plumbing fixture unit schedules, create piping & plumbing systems, and then analyze those systems. *Length: 1 day*

CONTRACTORS

ELECTRICAL

Learn how to place electrical equipment, lighting fixtures, component devices and then model conduit and cable tray in 3D. This hands-on 1-day course will additionally teach the students how to create quantity schedules and panel schedules, define spaces, create circuits and switch systems, and then wire the resulting circuits. *Length: 1 day*

MECHANICAL & PLUMBING

Learn how to place mechanical equipment, air terminals, and plumbing fixtures. Then model pipes and ductwork in 3D to connect those essential building components. This hands-on 1-day course will additionally teach the students how to place accessories such as valves and dampers, slope pipe, use view filters and define spaces. *Length: 1 day*

REVIT® FOR PROJECT MANAGERS

The topics of this hands-on one day class are focused for PMs and principals that do not need to be in the model every day nor become production staff. Students will learn to navigate the Revit interface and Revit projects, review building models for QA/QC, experience Worksharing – where multiple project team members can work on the same project at the same time – and much more. No Revit experience is required to take this class. *Length: 1 day*

DATES: Portland 11/21 | Seattle 10/2

COST: $595 per person

REVIT® STRUCTURE FOR STEEL

NEW

Learn the essential features and functionality of Revit Structure while focusing on Steel design. The student will experience the power of building information modeling (BIM) as you are taught how to navigate through the program interface, manage views and identify different types of structural elements. Students will also learn how to create levels, work with walls, sections, elevations, create floor framings, roofs, steel frames, floor decks, foundation slabs, footings, grade beams, stairs, ramps, elevator pits, and structural connections. *Length: 3 days*

DATES: Portland 10/22-24 | Seattle 10/29-31

COST: $1,095 per person

REVIT® STRUCTURE FOR CONCRETE

NEW

Learn the essential features and functionality of Revit Structure while focusing on Concrete design. The student will experience the power of building information modeling (BIM) as you are taught how to navigate through the program interface, manage views and identify different types of structural elements. Students will also learn how to create levels, work with walls, sections, elevations, create floor framings, roofs, floor decks, foundation slabs, footings, grade beams, stairs, ramps, elevator pits, schedules, and embeds. *Length: 3 days*

DATES: Portland 9/17-19 | Seattle 10/8-10, 12/10-12

COST: $1,095 per person

NAVISWORKS® ESSENTIALS

Learn how to unite, review and share your 3D design models from multiple formats - saving you from RFIs and collision issues. This hands-on one day class will teach you how to open and append 3D files of different formats for project review, perform visual project model approval and perform interference detection tests between 3D files of different disciplines and much more. *Length: 1 day*

DATES: Portland 10/24 | Seattle 9/12

COST: $595 per person

TOPCON | AUTODESK

Seamlessly Connecting the Office and the Field.

Contact one of our Vertical Construction Specialists to learn more about Topcon Autodesk workflow to increase productivity & profitability.

(855) 289-1772

INFRASTRUCTURE DESIGN SOLUTIONS

CIVIL 3D® ESSENTIALS

This course provides you with a foundation for using the dynamic technology of Civil 3D. Everything from importing points and creating surfaces to finished corridor/road design will be covered. *Length: 3 days*

DATES: Portland | 9/10-12, 10/8-10, 11/12-14, 12/3-5
Seattle | 9/24-26, 10/29-31, 11/19-21, 12/17-19
Anchorage | 11/12-14
Indianapolis | 11/5-7

COST: $1,195 per person

DESIGNING CORRIDORS & INTERSECTIONS IN CIVIL 3D®

Our team has fused together the highly successful "Intersection" and "Roadway Design" classes into one fast-paced session. Through interrelated exercises, our goal is to build your confidence in the identification of the many terms, objects and workflows associated within Corridor design and modification. Furthermore, expect to walk away with a clear understanding of the game changing Corridor Targeting functionality and how it relates to your Corridor designs. Join us! *Length: 1 day*

DATES: Portland 10/3, 11/21, 12/13 | Seattle 10/22 | Anchorage 10/2

COST: $595 per person

INCORPORATING SURVEY WITH CIVIL 3D®

Our in-depth one day training course is for civil engineers, surveyors and survey technicians that have completed the Civil 3D Essentials Course. Through hands-on practical exercises, you will further your training in the survey functionality. *Length: 1 day*

DATES: Portland 10/15, 11/18 | Seattle 11/19 | Anchorage 11/15

COST: $595 per person

ADVANCED GRADING FOR CIVIL 3D®

Making the "Grade" with Civil 3D!
The versatility of Civil 3D's powerful Grading tools will transform the way you approach your future designs… Join us as we explore the entire Grading process through a series of interrelated exercises specifically built to expand your knowledge level from one to the next. Along the way, we will apply "best practices" concepts as well as "out-of-the-box" solutions to achieve that final design goal. Whether you are a casual or seasoned user, infinite design possibilities await you! *Length: 1 day*

DATES: Portland 10/16, 11/19 | Seattle 11/20

COST: $595 per person

PIPING DESIGN IN CIVIL 3D®

This one day course will teach the piping features available in Civil 3D. You will learn how to modify parts using Part Builder, apply pipe rules, create and modify pipe designs, and perform a hydraulic analysis of the pipe network in both a custom spreadsheet and in the Hydraflow Storm Sewers Extension. *Length: 1 day*

DATES: Portland 10/17, 11/20 | Seattle 11/21 | Anchorage 10/3

COST: $595 per person

INFRAWORKS® ESSENTIALS

This class is designed for civil engineers, planners, architects, and others using any of the InfraWorks software. The training provides you with a fundamental knowledge of how to take advantage of the accelerated design process that uses data rich 3D models with high-end visualizations. This enables you to create, evaluate and better communicate 3D site plan proposals for faster approvals. *Length: 2 days*

DATES: Portland 10/31-11/1

COST: $935 per person

VEHICLE TRACKING IN CIVIL 3D®

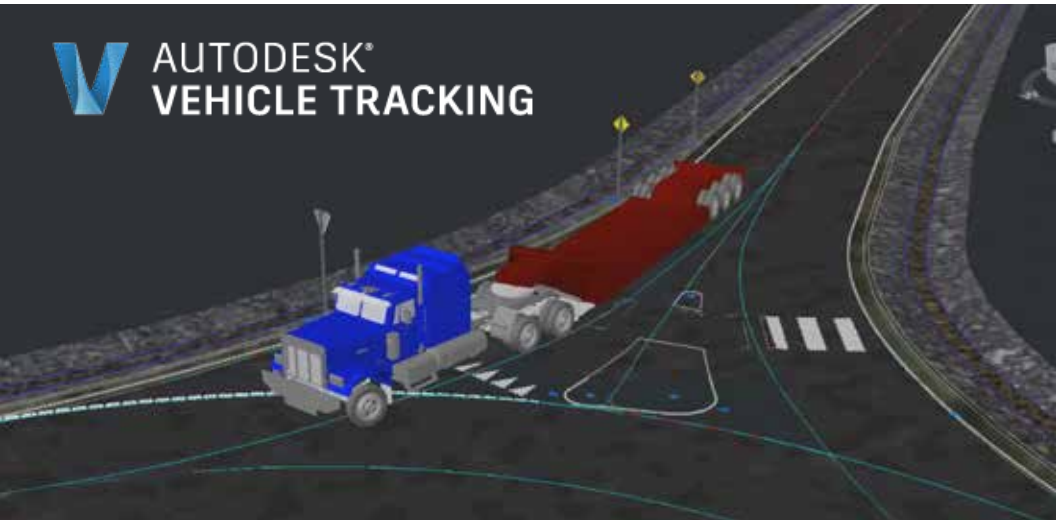
Product Introduction

Autodesk® Vehicle Tracking is a comprehensive transportation analysis and design solution for vehicle swept path analysis (2D & 3D). This software enables engineers, designers, and planners to predictably evaluate vehicle movements as well as optimize road and campus geomatics in real time. Additionally, the software makes quick work of parking and roundabout layout/design by adhering or monitoring from true design standards (customizable), so the user can efficiently move on to the next design decision. *Length: 1 day*

DATES: Portland 9/17 | Seattle 9/19 | Anchorage 10/1

NEW

COST: $595 per person



CIVIL 3D CUSTOM TEMPLATES

2 Hour Consultation

Whether you are a new user or already "in-deep" struggling with existing workflows, the simple acts of displaying, modifying and managing Civil 3D data can prove to be quite the challenge. Regardless of where your skillsets fall within this spectrum, ask yourself these following questions:

- Is our all-inclusive Styles Template complete, standardized and streamlined for success?
- Are we maximizing our software investment?
- Is there an easier and/or more efficient way to perform the repetitive daily tasks?

If any of your answers have fallen a bit short, we can help! Together, we will evaluate your current Styles Template and existing workflows and pinpoint what's working – and what is not. From there, we will devise and implement a plan that utilizes industry proven techniques that will both streamline and automate drawings right from the start. Take control of your drawings today!

Schedule your consultation today!

(800) 247-1927

TRAINING AND CERTIFICATION

AUTODESK Certified Professional

From academia and throughout your professional career, Autodesk provides educational resources—instructor-led, self-paced, or online training—and certification to help you stay competitive.

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Exams offered include Professional level

Exam Dates: 9/20, 10/11, 11/15, 12/13

Locations: Portland & Seattle

Time: 9am - 11am

Cost: $175 per exam

GET STARTED TODAY

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Get Answers. Get Back to Work. Be Productive.

Our West Coast locations are the hub for Autodesk Technical Support. For nearly three decades this nationally recognized team of experts has been providing over the phone, web based, and in person technical support to users of the AEC design software products.

ANNUAL CONTRACT OPTIONS INCLUDE

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$895/annually

TIER 2

- Phone/Email/Remote Support
- 1 Hour Remote Consulting
- $150/hr for Remote Consulting over the included 1 hour
- Public Class Discount (10%)
- Covers All Locations

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To learn more about additional offerings or to start your support agreement today call our direct support line.

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AUTODESK

AUTODESK TRAINING CENTERS

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Portland, OR 97218
(800) 247-1927

18040 72nd Avenue S.
Kent, WA 98032
(800) 558-5368

COLLABORATION

BLUEBEAM

BLUEBEAM REVU ESSENTIALS

Revu is built primarily for technical industries like architecture, engineering, construction, and oil & gas. In this class you will learn the Revu tools to streamline workflows throughout the construction process, from design review to project closeout and facilities management. *Length: 1 day*

DATES: Portland 11/19, 12/17 | Seattle 9/19, 10/15 | Spokane 10/15, 12/20
Anchorage 11/5 | Indianapolis 11/18

COST: $595 per person

BLUEBEAM REVU DOCUMENT MGMT. FOR CONSTRUCTION

In this course, you will learn how to use Revu to organize, navigate, and manage changes within large digital document sets throughout the project lifecycle. Additionally, learn how to use Revu to keep track of all revisions and create easier accessibility to document sets for all project team members. *Length: 1 day*

DATES: Portland 10/2| Seattle 9/5 | Spokane 10/16 | Indianapolis 11/19

COST: $595 per person

BLUEBEAM REVU FOR PROJECT MANAGERS

Do you find yourself buried in work trying to keep up with planning and documenting your projects? Bluebeam Revu has what you need to obtain a paperless workflow and stay on track! Revu for Project Managers will give you the tools you need to organize your project documents, track revisions, and collaborate through Studio from the field or office! *Length: 1 day*

DATES: Portland 11/20 | Seattle 10/16 | Anchorage 11/6 | Indianapolis 11/20

COST: $595 per person

BLUEBEAM REVU FOR TAKEOFF AND ESTIMATING

Are you ready to take Revu to the next level? Are you ready to move into detailed quantity takeoff? Bluebeam Revu has powerful tools to help you do exactly that. Bluebeam Revu for Takeoff and Estimating will take you through Revu's most powerful quantity Takeoff features and show you exactly how to use them, and adapt their properties to your specific needs. *Length: 1 day*

DATES: Portland 10/1 | Seattle 9/4 | Spokane 10/17 | Anchorage 11/7 | Indianapolis 11/21

COST: $595 per person

INSTRUMENT REPAIR

Topcon Solutions Stores are committed to customer service

TSS employs full-time GPS support staff, Network support personnel, and is the Midwest, Northeast, & Northwest Regional Service Centers for all Topcon & Sokkia products.

ALL TOPCON SOLUTIONS STORES ARE SERVICE AND REPAIR CERTIFIED

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