

Trimble Dimensions MEP Session List

A full list of educational sessions geared toward the user seeking valuable insight and knowledge to efficiently estimating, CAD, 3D laser scanning and field layout solutions.

November 3-5

2014

Trimble Dimensions
Las Vegas, NV

Sessions for Mechanical, Electrical, & Plumbing Contractors

FULL SESSION LIST

** NOTE SOME SESSIONS MAY BE REPEATED IN VARIOUS SECTIONS*

SESSIONS FOCUSED ON ESTIMATING

- BCMEP-8346 Trimble MEP, Executive Overview
- BCMEP-7943 Getting the Most out of Trimble Accubid Classic Estimating
- BCMEP-7867 Managing Material Pricing in Trimble Accubid Estimating Products
- BCMEP-7868 Managing Material Pricing in Trimble AutoBid Mechanical
- BCMEP-7905 Mastering Advanced Trimble Accubid LiveCount Pro Features
- BCMEP-7870 Mastering Multiple Bid Summaries in Trimble Accubid Classic Estimating
- BCMEP-7872 Mastering The New Features of Trimble Accubid Enterprise Estimating
- BCMEP-7871 Mastering The New Features of Trimble Accubid Enterprise Manager
- BCMEP-7865 Mastering The New Features of Trimble Autobid Mechanical
- BCMEP-7906 Mastering The New Features of Trimble AutoBid SheetMetal
- BCMEP-7866 Mastering Trimble AutoBid Mechanical OnScreen View Takeoff
- BCMEP-7971 Measuring and managing service fleets effectively
- BCMEP-7942 MEP Service Management and the Mobile Worker
- BCMEP-7707 Top Reasons for Implementing or Cross Grading to Trimble Accubid Enterprise Estimating
- BCMEP-7944 Using Digital Takeoff Tools to Increase Productivity
- Using Trimble Accubid Enterprise Mechanical Estimating Software to Gain Real Field and Fab Shop Estimates
- BCMEP-8082
- BCMEP-7869 Value Engineering with Trimble AutoBid Mechanical and SheetMetal
- BCMEP-7311 What is Needed to Succeed with BIM Estimating
- BCMEP-7760 Writing "Spec" Assemblies Without Using Specifications

SESSIONS FOCUSED ON BUSINESS OPERATIONS WORKFLOW BEST PRACTICES

- BCMEP-8346 Trimble MEP, Executive Overview
- BCMEP-7971 Measuring and managing service fleets effectively
- BCMEP-7942 MEP Service Management and the Mobile Worker
- BCMEP-7707 Top Reasons for Implementing or Cross Grading to Trimble Accubid Enterprise Estimating
- Using Trimble Accubid Enterprise Mechanical Estimating Software to Gain Real Field and Fab Shop Estimates
- BCMEP-8082
- BCMEP-7311 What is Needed to Succeed with BIM Estimating
- BCMEP-7760 Writing "Spec" Assemblies Without Using Specifications
- BCMEP-7825 BIM and Field Layout for MEP Contractors
- BCMEP-7566 Model Your Electrical World with SketchUp Pro
- BCMEP-6957 Real Life In The Field - Point Preparation and Layout Execution
- BCMEP-7972 Using Professional BIM Services to Enhance Your Project
- BCMEP-7858 Where is my stuff? Gain complete insight into the location and utilization of your assets
- BCMEP-7859 Working with Connection Rules in Trimble PipeDesigner 3D

Sessions for Mechanical, Electrical, & Plumbing Contractors

SESSIONS FOCUSED ON FIELD LAYOUT

- BCMEP-8346 Trimble MEP, Executive Overview
- BCMEP-7825 BIM and Field Layout for MEP Contractors
- BCMEP-6957 Real Life In The Field - Point Preparation and Layout Execution
- BCMEP-7087 Automated Modeling Technologies for Faster, More Efficient As-built BIMs
Connecting the Office with the Field: Roundtrip Capabilities of Trimble Field Link for MEP and Trimble
- BCMEP-7921 Field Points
- BCMEP-6967 Integration of Trimble into MEP Design
- BCMEP-7902 Practical Application of Trimble Field Points for MEP Contractors
- BCMEP-7920 Tips, Tricks and Advanced Features of Trimble Field Link for MEP
- BCMEP-7923 What's New in Field Layout for the MEP Contractor

SESSIONS FOCUSED ON BIM, CAD & DETAILING

- BCMEP-8346 Trimble MEP, Executive Overview
- BCMEP-7825 BIM and Field Layout for MEP Contractors
- BCMEP-6957 Real Life In The Field - Point Preparation and Layout Execution
- BCMEP-7087 Automated Modeling Technologies for Faster, More Efficient As-built BIMs
Connecting the Office with the Field: Roundtrip Capabilities of Trimble Field Link for MEP and Trimble
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- BCMEP-7311 What is Needed to Succeed with BIM Estimating
- BCMEP-7566 Model Your Electrical World with SketchUp Pro
- BCMEP-7972 Using Professional BIM Services to Enhance Your Project
- BCMEP-7859 Working with Connection Rules in Trimble PipeDesigner 3D
- BCMEP-7002 How Building Information Modeling is Transforming the Global Construction Industry
- BCMEP-7903 Tips for MEP BIM Designers and Detailers
- BCMEP-7922 What's New in 3D Laser Scanning for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Trimble MEP, Executive Overview

Session ID: BCMEP-8346

Day(s) & Time(s): Mon, Nov 3rd, 10:30 AM - 11:30 AM; Mon, Nov 3rd, 3:00 PM - 4:00 PM

Length: 60 mins

Location: Mirage

Abstract:

MEP contractors today are required to do more with less and often the solutions they have available to them aren't integrated. During this session Pat Bohle, general manager MEP division, will review how the technologies acquired from Accubid, QuickPen, and TradeService combined with Trimble's solutions leads to an integrated and efficient workflow.

This session will also provide an introduction of new and innovative product announcements for MEP contractors that will be announced at Trimble Dimensions as well as recommendations of the most valuable sessions for different attendee profiles.

During this session attendees can expect to hear:

- How integrated software increases efficiencies from estimating to layout
- Introduction of new and innovative solutions from Trimble's MEP division
- Improved interoperability and functionality you may not have heard about

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor, Leveraging Building Information Models (BIM) for the MEP Contractor, MEP Layout on the Building Construction Site

Trimble Buildings General Session

Session ID: BC-8440

Day(s) & Time(s): Tue, Nov 4th, 8:30AM - 9:30 AM

Length: 60 mins

Location: Treasure Island

Abstract:

This General Session will showcase Trimble Buildings, a Trimble Organization focused on streamlining processes across the Design-Build-Operate (DBO) lifecycle of a building. Trimble Buildings offers solutions that empower AEC (architecture, engineering and construction) professionals and building owners/occupiers to improve quality and safety, increase efficiencies, and maximize the profitability of projects and facilities--from concept to construction, operation, and renovation. The session will highlight new trends and solutions that impact all the major stakeholders in the life of a building, featuring developments in cloud and mobile technology, 3D modeling and visualization, project and budget management, integrated workplace management and much more. Come learn the latest on our strategy and new technologies from industry peers and senior leadership with Trimble.

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor, Leveraging Building Information Models (BIM) for the MEP Contractor, MEP Layout on the Building Construction Site

Automated Modeling Technologies for Faster, More Efficient As-built BIMs

Session ID: BCMEP-7087

Day(s) & Time(s): Mon, Nov 3rd, 10:30 AM - 11:30 AM

Length: 60 mins

Location: Mirage

Abstract:

Although the industry is years away from the much discussed modeling "easy" button, real progress is being made on several automated modeling technologies that offer faster, more accurate as-built Building Information Models, BIM. This forward-looking session will take a realistic view of several new scanning and modeling technologies and the impact they could have on future adoption of BIM. From low-cost new reality capture modalities, to automated planar extraction, to the



Sessions for Mechanical, Electrical, & Plumbing Contractors

latest automated modeling algorithms still in development, you will get a window into the hottest new technologies and when you can expect them to come on-line.

Tracks:

Field Solutions for the General Contractor / Construction Manager, MEP Layout on the Building Construction Site, Leveraging Building Information Models (BIM) for the MEP Contractor

BIM and Field Layout for MEP Contractors

Session ID: BCMEP-7825

Day(s) & Time(s): Wed, Nov 5th, 3:30 PM - 4:30 PM

Length: 60 mins

Location: Mirage

Abstract:

BIM, Building Information Modeling, is a process in which multiple intelligent objects are put together to create an overall intelligent building construction model, using this model helps to make better decisions earlier in the design and construction process. So what does BIM have to do with field layout? This presentation will focus on how BIM affects your field layout and why combining the two is so important. We will discuss what Encore Electric is doing to help take BIM & field layout collaboration to the next level as well as keeping up with multiple types of software, collaboration, and communication.

Attendees can expect to learn:

- A different way of looking at BIM as an MEP contractor
- Review of current issues experienced during 3D coordination
- How the accuracy of a construction model can affect multiple aspects of a project
- The accuracy you can expect from a Robotic Total Station
- The ROI benefits Encore Electric has seen since implementing BIM & field layout solutions

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, MEP Layout on the Building Construction Site, Leveraging Building Information Models (BIM) for the MEP Contractor

Connecting the Office with the Field: Roundtrip Capabilities of Trimble Field Link for MEP and Trimble Field Points

Session ID: BCMEP-7921

Day(s) & Time(s): Mon, Nov 3rd, 4:30 PM - 5:30 PM

Length: 60 mins

Location: Mirage

Abstract:

Enhance your ability to communicate as-built conditions between the office team and the field team. In this session, learn about techniques to prepare your 3D model for field layout using the Trimble® Field Points tool for point creation. Working as a plugin within AutoCAD® and Revit®, Trimble Field Points provides direct integration of your model to Trimble® Field Link for MEP and the robotic total station. Learn about the roundtrip capabilities and how points that have been staked in the field can be brought back in to your 3D model for comparison with the design location.

Learn from the Trimble experts about:

- Tips and tricks on preparing your layout points using Trimble Field Points
- How to export your layout points for direct integration with your robotic total station and Trimble Field Link for MEP
- Understand the roundtrip capabilities to bring your as-built data from the field back in to your 3D model

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor, MEP Layout on the Building Construction Site



Sessions for Mechanical, Electrical, & Plumbing Contractors

Getting the Most out of Trimble Accubid Classic Estimating

Session ID: BCMEP-7943

Day(s) & Time(s): Tue, Nov 4th, 2:00 PM - 3:00 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Trimble® Accubid Classic has been the workhorse of the estimating industry for over 25 years. Whether you are a new or veteran user of Classic, come see the latest enhancements and learn time saving tips & tricks for creating fast and accurate estimates.

- Properly layout the project to meet the needs for estimating and construction.
- Easily create custom, project specific assemblies on-the-fly allowing you to meet the needs of your unique projects.
- Use the Live Extension functionality to instantly calculate each takeoff as it occurs and with a single click jump from the audit trail to bill of materials.
- Seamless integration with Trimble® Accubid LiveCount™ allows your takeoff to be automatically imported into the estimate.
- Quick electronic access to TRA-SER®, by Trade Service, for current material pricing

Tracks:

Next Generation Estimating for the MEP Contractor

How Building Information Modeling is Transforming the Global Construction Industry

Session ID: BCMEP-7002

Day(s) & Time(s): Mon, Nov 3rd, 12:00 PM - 1:00 PM; Wed, Nov 5th, 10:00 AM - 11:00 AM

Length: 60 mins

Location: Mirage

Abstract:

This presentation will cover the latest global research data on adoption and implementation of BIM in the US and other major markets around the world; metrics for its business value and ROI; leveraging BIM capability for competitive advantage; investment trends in various elements of BIM programs; forecasts for future expansion, and unique data about the owner's perspective on policies; practices and the value of BIM for design, construction and facilities management.

In addition, the presentation will include actual examples of what BIM leaders are doing that leverage BIM to reduce uncertainty, align performance expectations, drive productivity and improve outcomes for all parties.

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Integration of Trimble into MEP Design

Session ID: BCMEP-6967

Day(s) & Time(s): Wed, Nov 5th, 2:00 PM - 3:00 PM

Length: 60 mins

Location: Mirage

Abstract:

As 3D and BIM become more prevalent, the needs of a design department must increase to satisfy that requirement. The ability to translate a computer-driven concept into tangible reality for construction is crucial to meet these new standards, and these Trimble products (PipeDesigner 3D®, Trimble® Field Link, Tekla, and TX5 3D laser scanner) are instrumental to that ability. How do you create something from an idea? How do you troubleshoot problems before they really happen? How do you turn virtual reality into reality? All of these Trimble programs play a role in achieving those goals; this presentation will demonstrate how that can be accomplished and how it positively impacts the project.

The practices shown in this presentation were created out of necessity for addressing project needs that have now become company standard for all projects going forward: creating accurate drawings with an accurate BOM, locating hangers and support steel, fabricating spools with minimal field welds, meeting schedule deadlines with speed and efficiency and indirectly improving jobsite sequencing. We've found that in order to achieve these goals, we needed to be experienced – both in office and field - in more than any single product and to use these continuously during the life cycle of a given project.

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor, MEP Layout on the Building Construction Site

Managing Material Pricing in Trimble Accubid Estimating Products

Session ID: BCMEP-7867

Day(s) & Time(s): Mon, Nov 3rd, 11:00 AM - 1:30 PM

Length: 150 mins

Location: Offsite - Computer Lab 2

Abstract:

The management of material pricing in estimating systems is one of the cornerstone activities for creating fast and accurate estimates. Accurate pricing is a requirement for not only day-to-day pricing but also when ensuring up-to-the minute pricing on bid day. This workshop utilize hands-on simulation, to explore the techniques needed to manage material pricing. Topics will include:

- Price updating in Trimble® Accubid Classic databases using TRA-SER®, by TradeService
- Price updating of Classic databases using vendor pricing in Microsoft Excel
- Techniques to establishing database discounts in Trimble Accubid database
- Managing bid day pricing using TradeService Supplier XChange in both Classic and Enterprise

Tracks:

Next Generation Estimating for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Managing Material Pricing in Trimble AutoBid Mechanical

Session ID: BCMEP-7868

Day(s) & Time(s): Mon, Nov 3rd, 2:30 PM - 5:00 PM

Length: 150 mins

Location: Offsite - Computer Lab 5

Abstract:

The latest version of Trimble® AutoBid® Mechanical introduced an event tighter integration with TRA-SER®, by TradeService, for unattended pricing updates to your estimate. You are invited to learn about these enhanced features through an instructor-led hands-on workshop. Join us if you would like to improve your understanding of managing database pricing with TRA-SER by TradeService, as well as Missing Price and Labor worksheets. Some of the specific topics that will be covered include:

- Scheduling automatic price updates
- Direct link to TRA-SER Submittal Manager
- Copy and build tables directly from TRA-SER
- New Missing Price and Labor Worksheets link directly to Master Tables

Tracks:

Next Generation Estimating for the MEP Contractor

Mastering Advanced Trimble Accubid LiveCount Pro Features

Session ID: BCMEP-7905

Day(s) & Time(s): Wed, Nov 5th, 2:00 PM - 4:30 PM

Length: 150 mins

Location: Offsite - Computer Lab 2

Abstract:

Come spend a few hours with an expert Trimble® Accubid LiveCount™ Pro instructor and gain a deeper understanding of LiveCount Pro's advanced techniques. In this hands-on lab you will have an opportunity to use LiveCount Pro in a simulation to explore more advanced techniques and features. Learn the advanced techniques to help you speed up your takeoff process and produce bids with greater speed and accuracy. Topics that will be covered include:

- Methods of drawing setup and configuration
- Mastering AutoCount
- Manage your drawing revisions with the drawing compare feature

Tracks:

Next Generation Estimating for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Mastering Multiple Bid Summaries in Trimble Accubid Classic Estimating

Session ID: BCMEP-7870

Day(s) & Time(s): Mon, Nov 3rd, 2:00 PM - 5:00 PM

Length: 150 mins

Location: Offsite - Computer Lab 2

Abstract:

The ability to accurately complete multiple bid summaries is a required skill for today's estimator. With tight deadlines, there is little room for error when completing bid summaries. This session will explore methods and techniques to accurately create and complete multiple bid summaries through hands-on simulations in a lab environment. The lesson will include a number of topics in support of the learning objectives, such as:

- Planning and creating multiple bid summaries
- Accurately assigning cost allocations
- Modifying closing screens for each summary
- Finalizing each bid summary
- Reviewing the Bid Breakdown screen

Tracks:

Next Generation Estimating for the MEP Contractor

Mastering The New Features of Trimble Accubid Enterprise Estimating

Session ID: BCMEP-7872

Day(s) & Time(s): Wed, Nov 5th, 2:00 PM - 4:30 PM

Length: 150 mins

Location: Offsite - Computer Lab 5

Abstract:

The latest version of Trimble® Accubid Enterprise Estimating has a number of improvements that estimators will find very useful. Join us in exploring these new features through hands-on simulations in a lab environment. We will cover added functionality such as:

- Expanded Breakdown categories
- Multiple specification association to systems
- Improved grid filtering and sorting capabilities
- Updating global variables
- Using defaults for specifications
- Improved workflow of closeout screens

Tracks:

Next Generation Estimating for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Mastering The New Features of Trimble Accubid Enterprise Manager

Session ID: BCMEP-7871

Day(s) & Time(s): Wed, Nov 5th, 10:30 AM - 1:00 PM

Length: 150 mins

Location: Offsite - Computer Lab 5

Abstract:

The latest version of Trimble® Accubid Enterprise Manager has a number of improvements that database custodians will find very useful. Join us in exploring these features through hands-on simulations in a lab environment. In this session we will explore added functionality such as:

- Expanded Breakdown categories
- Improved Closeout default screens
- Defined labor rate tables
- Price or labor by weight capabilities

Tracks:

Next Generation Estimating for the MEP Contractor

Mastering The New Features of Trimble Autobid Mechanical

Session ID: BCMEP-7865

Day(s) & Time(s): Mon, Nov 3rd, 11:00 AM - 1:30 PM

Length: 150 mins

Location: Offsite - Computer Lab 5

Abstract:

This session highlights new features added in the latest versions of Trimble® AutoBid® Mechanical through an instructor-led hands-on environment. Learn how these enhanced features will improve usability and productivity by putting them into action with a live walk through. Some of the topics to be covered include:

- Automatic addition of hanger count and spacing into Rapid Report templates
- Copy/paste between drawings
- Merging new data from Trimble to Aquatherm and lead free valves
- Spool/Isometric drawing takeoff
- Symbol assemblies
- Price updating using Trade Service
- Calculation messages now directly link to table for correction

Tracks:

Next Generation Estimating for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Mastering The New Features of Trimble AutoBid SheetMetal

Session ID: BCMEP-7906

Day(s) & Time(s): Tue, Nov 4th, 3:30 PM - 6:00 PM

Length: 150 mins

Location: Offsite - Computer Lab 5

Abstract:

This session will introduce the new features added in the latest version of Trimble® AutoBid® SheetMetal. Through an instructor-led hands-on experience, you can walkthrough and learn how the latest enhancement to AutoBid SheetMetal will help improve usability and productivity. Some of the topics to be covered include:

- Importing/exporting
- Round duct conversion
- Menu commands
- Value engineering
- Alternates
- Managing rapid reports
- Labor books

Tracks:

Next Generation Estimating for the MEP Contractor

Mastering Trimble AutoBid Mechanical OnScreen View Takeoff

Session ID: BCMEP-7866

Day(s) & Time(s): Tue, Nov 4th, 12:00 PM - 2:30 PM

Length: 150 mins

Location: Offsite - Computer Lab 5

Abstract:

The latest version of OnScreen View Takeoff offers many useful features and benefits that you can utilize in your estimating practices. You are invited to learn about these enhanced features through an instructor-led workshop. Join us if you would like to improve your understanding and productivity with the latest feature additions to OnScreen View Takeoff. Some of the topics to be covered include:

- Compare Drawings
- Multiple Box In feature for copy/move/edit/delete and more
- Advanced Search and Replace
- Sticky Notes/ Fonts size controls
- Compare Short Interval Planning (SIP) profiles
- Specific Symbols can now be placed on Mouse/Smart or Touch menus
- Batch Printing multiple drawings

Tracks:

Next Generation Estimating for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Measuring and managing service fleets effectively

Session ID: BCMEP-7971

Day(s) & Time(s): Tue, Nov 4th, 5:00 PM - 6:00 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Companies that have field service operations are met with similar challenges when it comes to meeting customer service level agreements, ensuring the highest possible first-time fix rate and getting the most productivity from technicians. Industries such as telco/cable, construction, field service and specialty contractors all strive to improve productivity and utilization of technicians and assets while reducing operational costs and increasing customer satisfaction, and they look to technology to help them do so. Trimble field service solutions allow companies to intelligently schedule a full day's work with the touch of a button, add in extra jobs throughout the day with minimal disruption to work in progress and provide end-of-the-day analytics to management.

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor

MEP Service Management and the Mobile Worker

Session ID: BCMEP-7942

Day(s) & Time(s): Wed, Nov 5th, 12:30 PM - 1:30 PM

Length: 60 mins

Location: Mirage

Abstract:

This session will introduce you to Trimble's Field and Work Management solutions along with discussions of integration points to the Trimble® Classic Time and Material Billing Program. Key points to be covered include:

1. Optimizing scheduling and notification to the mobile worker
2. Reducing fuel costs
3. Improving driver safety
4. Understanding technician productivity
5. Improve technician productivity
6. Accelerate cash flow
7. Improve customer satisfaction

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

Model Your Electrical World with SketchUp Pro

Session ID: BCMEP-7566

Day(s) & Time(s): Tue, Nov 4th, 3:30 PM - 4:30 PM; Wed, Nov 5th, 3:30 PM - 4:30 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Technology is a major contributing factor in driving an MEP contractor's competitive edge. This session covers Trimble® SketchUp Pro utilizing add-on tools that can be used in designing the electrical portion of a commercial construction project. Using Trimble's new building in Westminster, Colorado, as the example, we will show how these tools can be used in electrical design. Topics include: bringing in a 3D model of a building, laying out the equipment room, running primary and secondary conduits along with cable tray throughout the building, and locating and setting fixtures along with other electrical devices throughout the building.

Trimble SketchUp Pro and additional extensions from the 3D Warehouse make it easy to quickly model the real world in 3D, while allowing changes to be quickly communicated to the project team.

Tracks:

Applying SketchUp Pro, Leveraging Building Information Models (BIM) for the MEP Contractor, Business Operations Workflow Best Practices for MEP Owners & Manager

Practical Application of Trimble Field Points for MEP Contractors

Session ID: BCMEP-7902

Day(s) & Time(s): Tue, Nov 4th, 3:30 PM - 6:00 PM

Length: 150 mins

Location: Offsite - Computer Lab 2

Abstract:

Trimble® Field Points launched in 2014 with versions for AutoCAD® and Revit®. Field Points offers a fluid workflow to point creation for field points such as hangers and sleeve locations. This session will explore the creation of field points for both versions of software through an instructor-led practical workshop. Some of the topics will include:

- Tracing and placing points over path
- Creating blocks
- Inserting blocks over points
- Overview of Trimble Field Points in Revit
- Similarities between AutoCad and Revit versions
- Adding markers to families and attaching them
- Adding point over markers

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor, MEP Layout on the Building Construction Site

Real Life In The Field - Point Preparation and Layout Execution

Session ID: BCMEP-6957

Day(s) & Time(s): Tue, Nov 4th, 10:00 AM - 11:00 AM

Length: 60 mins

Location: Treasure Island

Abstract:

Many times, a job can look great when you're preparing your points in your design files; however, the reality may be completely different when you arrive at the job site. This presentation shares how we, Taylor Electric, run our RTS Department and provides a workflow for the real world application of point preparation in the CAD Department, as well as how to make the files they provide work for onsite layout.

Discussion Points

- How to collaborate with Project Managers and Foreman to reach agreement with the layout



Sessions for Mechanical, Electrical, & Plumbing Contractors

- How to prepare files and drawings in the office before moving to the jobsite
- Information required to check before preparing files
- Methods to clean up CAD/Revit drawings before transferring to Trimble® Field Link for MEP
- Best point preparation techniques
- How to troubleshoot Trimble® Robotic Total Station set up issues
- Questions to ask your Foreman prior to arriving at the jobsite
- Time expectations to lay out a job
- Unique layout techniques
- What you can layout on a jobsite and how to layout those items with different layout styles & materials

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, MEP Layout on the Building Construction Site, Leveraging Building Information Models (BIM) for the MEP Contractor

Tips for MEP BIM Designers and Detailers

Session ID: BCMEP-7903

Day(s) & Time(s): Mon, Nov 3rd, 3:00 PM - 4:00 PM

Length: 60 mins

Location: Mirage

Abstract:

This session will appeal to MEP designers and detailers in search of tips to improve their use of Trimble modeling and point creation software such as Trimble® PipeDesigner® 3D, Trimble DuctDesigner® 3D, Trimble® Field Points (AutoCAD® and Revit®). In this classroom session we will review techniques and best practices for preparing CAD drawings in order to make files easier to work with.

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor

Tips, Tricks and Advanced Features of Trimble Field Link for MEP

Session ID: BCMEP-7920

Day(s) & Time(s): Wed, Nov 5th, 12:30 PM - 1:30 PM

Length: 60 mins

Location: Mirage

Abstract:

Now that you have mastered the basic principles of field layout using Trimble® Field Link for MEP, are you looking for more ways to increase your field productivity and knowledge? Learn from the Trimble experts about tips, tricks and advanced features using your robotic total station and Trimble Field Link for MEP. This session is designed to introduce you to advanced features within Trimble Field Link for MEP. The presentation will also look at the features found in the current release of Trimble Field Link.

Topics that will be covered include:

- Layout techniques to increase your efficiency in the field
- The process to bring design changes in to your Trimble Field Link for MEP project file
- The process to collect as-built measurements and utilize this data for prefabrication and jobsite verification

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor, Office Solutions for the General Contractor / Construction Manager, MEP Layout on the Building Construction Site



Sessions for Mechanical, Electrical, & Plumbing Contractors

Top Reasons for Implementing or Cross Grading to Trimble Accubid Enterprise Estimating

Session ID: BCMEP-7707

Day(s) & Time(s): Tue, Nov 4th, 11:30 AM - 12:30 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Making the decision to implement or change your estimating system can have major impacts on your company's estimating practices. Whether you are a current Trimble® Accubid Classic customer considering whether moving to Trimble® Accubid Enterprise or a new customer, in this session Mike Yatteau, of Sprig Electric, will walk participants through the top reasons and considerations for moving to Trimble Accubid Enterprise based on his experience with cross grading from Classic to Enterprise.

This session will cover the following topics:

1. Discuss why you should consider Enterprise as your estimating solution
 - The power of Assemblies/Formulas/Specs
 - Leveraging Takeoff Pads
 - Integration opportunities
2. Create a deployment plan
 - New installation
 - Cross grading from Trimble Accubid Classic Estimating
3. Discuss key components post deployment
 - Properly setting up your estimate
 - Completing your takeoffs
 - Using LiveCount as your digital takeoff tool
 - Reviewing the takeoff for errors and omissions
 - Final review
 - Bid breakdown for presenting the estimate to owners

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor

Using Digital Takeoff Tools to Increase Productivity

Session ID: BCMEP-7944

Day(s) & Time(s): Wed, Nov 5th, 10:00 AM - 11:00 AM

Length: 60 mins

Location: Mirage

Abstract:

Not all owner and general contractors provide 2D or 3D native models to help develop an estimate. When this happens the use of digital takeoff software such as Trimble® Accubid LiveCount™ can help speed up the takeoff process and increase your bid accuracy. Trimble Accubid Livecount Pro was integrated with the Trimble Accubid estimating solutions nearly five years ago. This session will show why the MEP industry is embracing digital takeoff technology and how you can implement it in your company. In addition, we will review best practices and tips to help increase productivity, including:

1. Proper setup
2. Standardize your Symbol set
3. Both a design tool and a takeoff Tool
4. Reviewing your bid
5. Clarity to the field
6. Looking for Project Changes

Tracks:

Next Generation Estimating for the MEP Contractor



Sessions for Mechanical, Electrical, & Plumbing Contractors

Using Professional BIM Services to Enhance Your Project

Session ID: BCMEP-7972

Day(s) & Time(s): Tue, Nov 4th, 2:00 PM - 3:00 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Session will focus on the benefits of contractors using Professional BIM Services by presenting case studies and examples of past client successes.

- Case study on reduced costs and enhanced deliverable turn-around of models and drawings using Professional Services
- Case study showing the benefits of using Professional services during pre-construction work and collecting point cloud data and converting the data to models for use in construction, redesign, collaboration or QA
- Examples of how clients are able to reach new markets using Profession BIM Services to expand their company's virtual design construction offerings

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Leveraging Building Information Models (BIM) for the MEP Contractor

Using Trimble Accubid Enterprise Mechanical Estimating Software to Gain Real Field and Fab Shop Estimates

Session ID: BCMEP-8082

Day(s) & Time(s): Tue, Nov 4th, 5:00 PM - 6:00 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Mechanical contractors know that one key to reducing risk, efficiently managing job schedule and increasing productivity is prefabrication. By prefabricating large portions of your mechanical systems in the shop and then installing fabricated assemblies in the field contractors can greatly improve project efficiency. Until recently, mechanical contractors didn't have an accurate way to break down their estimates into fabrication hours and installation hours.

Join Tim Moormeier, President of U.S. Engineering Company and Co-Chairman of the MCAA WebLEM Committee, as he discusses how new data published by the MCAA, in conjunction with Trimble® Accubid Enterprise allows contractors to breakdown their estimates in this manner for full project estimate visibility. The MCAA WebLEM Committee recently published a new set of labor units called the Work Activity Method labor units. Trimble Accubid Enterprise utilizes these new labor units from the MCAA to provide an efficient and complete way for mechanical contractors to estimate their piping systems with the detail needed to give them specific labor hours for each activity, including easily breaking apart the estimated fabrication shop hours versus the field installation hours.

Tracks:

Next Generation Estimating for the MEP Contractor



Sessions for Mechanical, Electrical, & Plumbing Contractors

Value Engineering with Trimble AutoBid Mechanical and SheetMetal

Session ID: BCMEP-7869

Day(s) & Time(s): Wed, Nov 5th, 10:30 AM - 1:00 PM

Length: 150 mins

Location: Offsite - Computer Lab 2

Abstract:

The practice of value engineering bids is common in today's competitive marketplace. Fortunately there are wonderful features within Trimble® AutoBid® software that simplifies this otherwise onerous task. This session offers a walkthrough of these features through an instructor-led hands-on experience. Some of the topics to be covered will include:

- Compare price and labor by changing specifications in mechanical reports
- Understanding the mechanical database settings for successful comparisons
- Compare price and labor in Trimble AutoBid SheetMetal by changing rectangular duct takeoff to round
- Compare costs in Trimble AutoBid SheetMetal for liner vs wrap insulation

Tracks:

Next Generation Estimating for the MEP Contractor

What is Needed to Succeed with BIM Estimating

Session ID: BCMEP-7311

Day(s) & Time(s): Tue, Nov 4th, 10:00 AM - 11:00 AM

Length: 60 mins

Location: Treasure Island

Abstract:

The presenter has visited companies coast to coast discovering what is needed to successfully implement BIM (building information modeling) estimating in a construction company. Topics covered include: estimating process with BIM, using tablets for creating BIM's, required software abilities, job descriptions, and employee research & development time.

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor, Leveraging Building Information Models (BIM) for the MEP Contractor

Sessions for Mechanical, Electrical, & Plumbing Contractors

What's New in 3D Laser Scanning for the MEP Contractor

Session ID: BCMEP-7922

Day(s) & Time(s): Tue, Nov 4th, 3:30 PM - 4:30 PM

Length: 60 mins

Location: Treasure Island

Abstract:

The use of 3D laser scanning technology in the construction industry continues to gain momentum and become part of the standard field workflow. Laser scanning is a fast and efficient way to collect as-built information from the field and is the most economical use of your time and money for as-built measurements. Scan data can be used through all phases of the design and construction process. This presentation will focus on providing a high level overview of the scanning workflow and introduce you to the solutions that Trimble provides to make the most of your 3D laser scanning investment. A live demonstration will introduce you to collecting scan data in the field to document as-built conditions, register the data into a composite point cloud model and begin to work with the data through modeling and 3D coordination. This presentation will look at the Trimble 3D laser scanners, the Trimble® RealWorks scanning software and Trimble® SketchUp Pro.

Learn from the Trimble experts about:

- Overview of the MEP scanning workflow
- Overview of the Trimble MEP scanning portfolio from hardware to software applications
- Live demonstration of Trimble RealWorks and Trimble SketchUp

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor

What's New in Field Layout for the MEP Contractor

Session ID: BCMEP-7923

Day(s) & Time(s): Tue, Nov 4th, 11:30 AM - 12:30 PM

Length: 60 mins

Location: Treasure Island

Abstract:

Trimble continues to set the industry standard for field layout for the MEP contractor. From the industry first auto-focus green laser robotic total station to the easy-to-use and innovative Trimble® Field Link for MEP layout software, Trimble's MEP division provides premier solutions to the MEP contractor for field layout. This session will focus on providing you with a look in to the MEP field solutions portfolio, from robotic total stations to Trimble Field Link for MEP layout software. Attendees of this session will also learn what's next from Trimble, how our solutions will help you overcome existing daily challenges you face on a daily basis and streamline the workflows for MEP construction-specific tasks.

Tracks:

Leveraging Building Information Models (BIM) for the MEP Contractor, MEP Layout on the Building Construction Site

Where is my stuff? Gain complete insight into the location and utilization of your assets

Session ID: BCMEP-7858

Day(s) & Time(s): Mon, Nov 3rd, 12:00 PM - 1:00 PM

Length: 60 mins

Location: Mirage

Abstract:

Where is my stuff? This is an all too common question heard on jobsites, in warehouses or from workers in the field. Complete insight into tool location, utilization and serviceability can determine project efficiency and profitability. In this session we will discuss how Trimble MEP's Asset Management solutions allow our contractors to gain full insight into their asset portfolio. Find out how your company can:

- Know which tools have been allocated to each job and their locations on that jobsite.



Sessions for Mechanical, Electrical, & Plumbing Contractors

- Ensure that all tools are accounted for and secured at the end of each day.
- Know when equipment is due for service and schedule future service events.
- Track a project's tool and equipment cost for proper billing.
- Effectively apply job costs for tool usage to help determine the return on investment for your tools.
- Have confidence in dispatching service vehicles, knowing they have the right tools for each job.

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager

Working with Connection Rules in Trimble PipeDesigner 3D

Session ID: BCMEP-7859

Day(s) & Time(s): Tue, Nov 4th, 12:00 PM - 2:30 PM

Length: 150 mins

Location: Offsite - Computer Lab 2

Abstract:

The connection of piping systems for modelers using Trimble® PipeDesigner 3D® is a common activity and one that can be complicated in instances of incompatible pieces of pipe (i.e. copper and steel). These challenges are easily overcome by defining connection rules to address them. This session will explore the management of connection rules through a practical, instructor-led workshop. Some of the topics include:

- Locating connection rules
- Identifying end connection types
- Finding end connections
- Navigating the Data Editor

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Leveraging Building Information Models (BIM) for the MEP Contractor

Writing “Spec” Assemblies Without Using Specifications

Session ID: BCMEP-7760

Day(s) & Time(s): Mon, Nov 3rd, 4:30 PM - 5:30 PM

Length: 60 mins

Location: Mirage

Abstract:

Trimble® Accubid Enterprise Estimating was built around the idea of providing a flexible tool to fit a variety of MEP estimating needs. In this session, Legrand Richardson Jr., Atlantic Electric, will present some unique opportunities to use Enterprise to make your estimating faster and more accurate. Legrand will discuss alternative ways to build assemblies using attribute variables in lieu of specifications and a way to build Takeoff Pads to make estimators more productive. While focused on the assembly process within Trimble Accubid Enterprise, the principals discussed in this session can be applied to any estimating solution.

Tracks:

Business Operations Workflow Best Practices for MEP Owners & Manager, Next Generation Estimating for the MEP Contractor

