Autodesk® Revit for Fabrication

Brief Synopsis of Class Contents:

This live, instructor-led online class covers the basics of Autodesk Revit MEP with a strong focus on MEP Fabrication. Students will learn about proper project setup, be introduced to the differences between Fabrication Services and Revit MEP Systems, and understand the Revit work-sharing process using central files. Navigation and control of Revit Views will be explained. Students will also learn how to place and work with the LOD 400 content, called Fabrication Items, from the Autodesk Fabrication products (Fabrication CADmep, ESTmep, and CAMduct) within Revit MEP to create coordinated fabrication-intent models.

Learning Objectives:

• Become familiar with the unique aspects Revit brings to Building Information Modeling.
• Understand the fundamental concepts and features of Autodesk Revit MEP.
• Use Revit to design projects and convert to Fabrication for estimating, detailing, and spooling.
• Use the automated documenting tools for projects.
• Develop an initial level of comfort and confidence with Autodesk Revit MEP through learning the terminology and hands-on experience.
• Create an accurate model for detailing within MEP construction firms that reflects the intended installation.
• Learn the process of exchanging models with Autodesk Fabrication products.

Courseware:
Mastering Autodesk Revit MEP® by Don Bokmiller and Instructor Handouts

Number of Days:
5 Half Day Sessions

Continuing Education Hours:
18 hours

Who Should Attend:
All new users of Revit for Fabrication (MEP), Fabrication Detailers

Prerequisites:
Hardware & Operating System Requirements: A computer that meets the minimum Autodesk requirements for the above software is required.

System and Software Requirements:
http://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-System-Requirements

FAQs and Cancellation Policy:
http://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-FAQS
Class Outline and Topics:

**Introduction to BIM**
- Concepts / Parametrics

**User Interface**
- Ribbon Toolbars
- Project Browser
- View Navigation

**View Management**
- View Properties
- View Templates
- Discipline / Sub-discipline

**MEP Systems (Services)**
- System Graphics
- System Browser
- Check Systems (show disconnects)

**Documentation and Annotation**
- Tags and Schedules
- Sheets and Titleblocks

**Project Setup**
- Templates
- Content: Families / ITM Parts
- Database configuration
- Linking Models
- Spaces and Zones
- Color Schemes for Duct/Pipe

**Worksharing - Live**
- Terminology and Theory
- Enable Worksharing (Network vs. C4R)
- Worksets for Disciplines

**Mechanical HVAC Modeling**
- Duct Types and Systems (Services)
- Mechanical Engineering Settings
- Equipment Layout
- Routing Duct: Manually and Automated
- Sizing Duct and Checking Duct
- Documentation, Sheets and Plotting

**Mechanical Pipe Modeling**
- Equipment: Hydronic, Plumbing Fixtures, Fire Protection
- Systems for Hydronics, plumbing and fire protection
- Routing Pipe: Manually and Automated
- Pipe Sizing
- Riser views, Sheet views
- Documentation, Sheets and Plotting

**MEP Fabrication Detailing: Workflow**
- MEP Fabrication Parts Browser
- Specify Fabrication Settings
- Connection Indicators
- Load Content / Configurations
- Fabrication Profiles

**MEP Fabrication Parts Routing Solutions**
- Design to Fabrication
- Optimize Lengths
- Route and Fill
- Show Service
**MEP Fabrication Ductwork**
- Place Ductwork
- Modifying Part Properties
- Routing Solutions
- Supports (attach to structure)

**MEP Fabrication PipeWork**
- Place Pipes
- Modifying Parts Properties
- Routing Solutions
- Supports (attach to structure)

**Interoperability with CADmep**
- Store Design Line elements
- Store Graphics element
- Export Origins
- Out to RIF format
- Revit Extension for Fab MAJ format
- Export to CAD formats

**Documentation**
- MEP Fabrication Tags
- MEP Fabrication Schedules
- Text and Leaders
- Dimensions
- Tag by Category vs. Tag All

**Sheets and Printing**
- Setup
- PDF (Vector vs Raster)
- Extensions (Batch Plot)