REVIT® MECHANICAL ESSENTIALS
ONLINE COURSE OUTLINE

TOPCON
Solutions Store

AUTODESK
Platinum Partner

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Unravel the core concepts of Revit for mechanical systems design in this comprehensive course. Participants will learn how to model HVAC components, ductwork, and equipment, empowering them to streamline mechanical system design processes and produce detailed and coordinated designs.

Course Length: 3 days

Getting Started
- Overview of interface
- Navigating, viewing
- Selection methods
- Managing view display

Mechanical Systems
- Understanding systems
- Viewing systems
- Troubleshooting disconnects
- Analyzing systems
- Creating duct systems
- Creating hydronic systems

Modifying Building Elements
- Changing element properties
- Move, copy, rotate, & align elements

Working with Architects & Engineers
- Starting a new project
- Linking Revit projects
- Monitoring changes in linked files

Creating Views of the Model
- Duplicating views
- Adding callouts
- Creating elevations
- Creating sections

Schedules and Annotation
- Creating quantity schedules
- Working w/text & dimensions
- Adding tags

Construction Documents
- Creating legends
- Setting up sheets
- Controlling views on sheets

Details
- Creating model-based details
- Creating Drafting View-based details
- Spaces and Zones

Understanding spaces
- Creating spaces
- Managing spaces
- Creating zones
- Color schemes
- Creating a zone legend

Mechanical Modeling
- Adding air terminals
- Adding mechanical equipment
- Understanding connectors
- Understanding routing preferences
- Modeling hydronic pipe
- Modeling ductwork Lining
- Duct sizing
- Modeling with duct placeholders
- Automatic duct layout

Hydronic Piping Systems
- Understanding systems
- Viewing systems
- Troubleshooting disconnects
- Analyzing systems
- Creating plumbing systems
- Creating fire protection systems
- View filters
- Mechanical settings for pipe sizes
- Understanding connectors
- Understanding routing preferences
- Modeling intake and condensate pipes
- Modeling sloped pipe
- Parallel pipes
- Pipe sizing
- Using pipe placeholders

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