

AutoCAD®
MEP 2010
Compatible

Autodesk

AutoCAD® MEP 2010 Tutorial Series

220 Video tutorials for the New or Upgrading User

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Topics covered:

Overview and User Interface

Introduction
MEP Workspaces
Palette Interface
MEP Tools on Tool Palette
MEP Tools on Ribbon Interface
AutoCAD Tools on Ribbon Interface
Custom MEP Tools on Tool Palette
Custom AutoCAD Tools on Tool Palette
Content Browser and Tool Palettes
Project Navigator Workflow
New File Types
New Project
Copy Project Structure
Move or Rename Project
eTransmit Project
Archive Project
Project Navigator Templates
Prefix Project Number
External Reference Pathing
Match View Layers to Sheet View
Project Details
Bulletin Board
Project Image
Levels
Divisions
Category
Repath Project
Save Current DWG as Construct
New Construct

Introduction to Drawing Management

Project Browser

Project Navigator

Prerequisites:

Requirements:

Disk version requires Windows XP or higher 32bit only.
Internet Explorer 6.0+
Browser
Adobe Flash Player
DVD Drive
Pointing device
3 GB Drive Space

Online versions need only a high speed Internet connection, a browser and Adobe® Flash.

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Project Navigator

Overlay One Construct to Another
Copy Construct to Levels
New Element
New General View Drawing - Overall Design
New General View Drawing - Enlarged Plan
Where to Place Annotation
How to Create a Section
Modifying and Updating 2D Sections
Display of Sections
Edit Linework for a Section
Merge Lines
Material Boundary
Adding Linework
Creating Elevations
Creating Details
Convert Existing Detail to a View Drawing
Adding Tags for Schedules
Creating a Schedule
Additional Tools for Schedules
Display of Schedules
Creating Subsets
Modifying Subsets
Creating New Sheets
Adding Views to Sheets
Changing Scale on a View
Adding Titlemark
Linking Section/Elevation Bubbles to Views on Sheets
Creating a Sheet List
Modifying Sheet List
Updating Sheet List
eTransmit
Plotting Sheets
Modelspace Template
Create Paperspace Template
Layout Sheet Size
Page Setups and CTB/STB Setup
Titleblock
Titleblock Fields
Project Property Data
Adding HVAC Schematic Lines

HVAC Schematic

HVAC Schematic

Adding HVAC Schematic Symbols
HVAC Schematic System Definitions
HVAC Schematic Line Styles
HVAC Schematic Symbol Styles
Creating HVAC Schematic Symbol Styles

HVAC Spaces and Zones

Space Styles
Adding Associative Spaces
Space and Zone Manager
Adding NON-Associative Spaces
Adding Zones

MEP Settings

Exporting Spaces and Zones to GBXML
MEP Settings: Options dialog
Duct Preferences - Routing
Duct Preferences - Ducts, Vanes, Flanges, Flex and Connections
Duct Preferences - Part Group Definition
HVAC System Definitions

HVAC Layout

Duct Rise Drop Style
HVAC Equipment
Air Terminals
Placing VAV/Terminal Units
Modeling Single Line Duct
Sizing One Line Duct
Resizing Duct Layout
Modeling 3D Duct
Sizing 3D Duct
Duct Transitions
Adding Accessories
Creating Profiles for Structural Members and Hangers
Hanger Style and Hanger Tool
Creating a Section

HVAC Annotation

Interference Detection
Inserting Duct Size Label
Inserting Tags for Air Terminals
Custom Label Curves
Creating Custom Property Set Definitions
Creating Custom Tags Using Property Set Definitions
Air Terminal Schedule
Creating Custom Property Set Definition for Schedules

HVAC Annotation
Creating HVAC Parametric Parts - Air
Terminal

Creating Custom Schedule Table Styles

Creating Parametric Parts - Content Builder

Creating Parametric Parts - Workplanes

Creating Parametric Parts - Profiles

Creating Parametric Parts - Modifiers

Creating Parametric Parts - Dimensions and
Parameters

Creating Parametric Parts - Adding Additional
Workplanes

Creating Parametric Parts - Adding Additional
Profiles

Creating Parametric Parts - Adding Additional
Dimensions and Parameters

Creating Parametric Parts - Adding Geometry and
Dimensions/Parameters

Creating Parametric Parts - Adding Additional
Modifiers

Creating Parametric Parts - Adding Connectors

Creating Parametric Parts - Modifying Catalog with
Parameters

Creating Parametric Parts - Modifying Catalog with
Additional Parameters

Creating Parametric Parts - Validating MVPart

Creating HVAC Block-Based Parts - Fan-
Powered Terminal Unit

Creating HVAC Block Based Parts - Content Builder

Creating HVAC Block Based Parts - Part Behavior

Creating HVAC Block Based Parts - Assigning Block
Definition

Creating HVAC Block Based Parts - Assigning Image

Creating HVAC Block Based Parts - Creating
Connectors

Creating HVAC Block Based Parts - Placing
Connectors

Creating HVAC Block Based Parts - Catalog
Properties

Adding Additional Sizes to HVAC Block-
Based Parts - Fan-Powered Terminal Unit

Adding Additional Sizes to HVAC Block Based Parts -
Source Drawing

Adding Additional Sizes to HVAC Block Based Parts -
Adding the Block Definition to the Catalog

Adding Additional Sizes to HVAC Block Based Parts -
Adding the Connectors to the Additional Sizes

Adding Additional Sizes to HVAC Block Based Parts -

Piping Schematic	Modifying Catalog for New MVPart Schematic Lines Schematic Symbols Schematic System Definitions Schematic Line Styles Creating Schematic Symbol Styles Tagging Schematic Lines and Symbols
Piping Settings	Piping Preferences MEP Options Piping System Definitions Piping Routing Preferences Piping Rise Drop Style
Piping Layout	Adding Piping Equipment Adding Piping Equipment Modeling Piping Additional Grips for Piping Parallel Piping Pipe Accessories Creating Profiles for Structural Members and Hangers Hanger Style Hanger Tool
Piping Annotation	Inserting Pipe Size Tag Inserting Pipe System Tag Inserting Equipment Tag Inserting Flow Arrows Pipe Takeoff Schedule
Creating Pipe Parametric Parts - PVC Wye Fitting	Creating Parametric Parts - PVC Wye Fitting - Content Builder Creating Parametric Parts - PVC Wye Fitting - Workplanes Creating Parametric Parts - PVC Wye Fitting - Adding Profiles Creating Parametric Parts - PVC Wye Fitting - Adding Geometry and Constraints Creating Parametric Parts - PVC Wye Fitting - Adding Constraints Creating Parametric Parts - PVC Wye Fitting - Adding Additional Constraints Creating Parametric Parts - PVC Wye Fitting - Applying Connection Points Creating Parametric Parts - PVC Wye Fitting - Define

Creating Pipe Parametric Parts - PVC Wye Fitting	Connection Points Creating Parametric Parts - PVC Wye Fitting - Validating Parts Creating Parametric Parts - PVC Wye Fitting - Editing Catalog Creating Parametric Parts - PVC Wye Fitting - Continue Editing Catalog
Plumbing Settings	Plumbing Preferences Plumbing System Definitions Plumbing Line Style Plumbing Line Fitting Styles Plumbing Fixture Unit Table Styles
Plumbing Layout	Adding Plumbing Equipment - Ribbon Interface Adding Plumbing Equipment - Tool Palette Adding Plumbing Lines Adding Plumbing Lines Using Grips Adding Plumbing Accessories Sizing Plumbing Lines
Plumbing Annotation	Annotating Plumbing Lines Tagging Plumbing Fixtures Plumbing Fixture Schedule
Electrical Settings	Electrical Preferences Conduit Preferences Cable Tray Preferences Electrical System Definitions Load Definitions Electrical Panel Styles Electrical Devices Wire Styles Part Group Definitions Schematic Styles
Electrical Layout	Adding Devices Adding Spaces and Devices Placing Electrical Panels Circuiting Panel to Panel Circuiting Devices Overloading Circuit Wiring Devices Multiple Single Phase Circuiting Placing Lighting Fixtures EPD File in a Project

Electrical Layout

Wiring Lighting Fixtures
Placing Switch Gear
Modeling Conduit
Modeling Cable Tray
Offsetting with Conduit
Inserting One Line Symbols
Schematic Lines

Electrical Annotation

Tagging Home Runs
Device Tag
Lighting Fixture Tag
Lighting Fixture Schedule
Creating Custom Fixture Schedule
Creating Custom Schedule Table Style
Creating Panel Schedule

Electrical Symbols

Creating Custom Symbols
Creating Custom Switch Board MVPart
Custom Switch Board MVPart - Content Builder
Custom Switch Board MVPart - Connectors