

**The following is a list of training topics offered, overview
and standard contact hours:**

AUTOCAD & AUTOCAD LT

Update to AutoCAD 2010 from AutoCAD 2009	8 hours
Update to AutoCAD 2010 from AutoCAD 2008	16 hours
Update to AutoCAD 2009 from AutoCAD 2008	8 hours
Update to AutoCAD 2009 from AutoCAD 2007/2006	16 hours
AutoCAD Fundamentals – AutoCAD 2010, 2009, 2008, 2007, 2006	
AutoCAD Fundamentals – Part 1	24 hours
AutoCAD Fundamentals – Part 2	16 hours
AutoCAD Advanced - AutoCAD 2010, 2009, 2008, 2007, 2006	24 hours
Maximizing AutoCAD The best of latest AutoCAD tools, tips and techniques.	8 to 16 hours
AutoCAD 2010/2009/2008 3D Drawing & Modeling	8 hours
AutoCAD Plotting & Sheet Sets Layouts, Page Setups, Pen Sets, Plotter conf.	8 hours

ARCHITECTURE

AutoCAD Architecture 2010/2009/2008 Fundamentals:	24 hours
AutoCAD Architecture 2010/2009/2008 Advanced:	24 Hours

REVIT ARCHITURE

Revit Architecture 2010/2009/2008 Fundamentals	24 hours
Revit Architecture 2010/2009/2008 Intermediate	24 hours
Revit Architecture 2010/2009/2008 Advanced	16 hours

REVIT STRUCTURE

Revit Structure 2010/2009 Fundamentals	24 hours
Revit Structure 2010/2009 Advanced	16 hours

REVIT MEP

Revit MEP 2010/2009 Fundamentals	24 or 32 hours
----------------------------------	----------------

For more in-depth information on any of our courses, please contact us and we can send you a copy of the table of contents from any of the training manuals we use.

Course Outlines

AUTOCAD & AUTOCAD LT

Update to AutoCAD 2010 from AutoCAD 2009 Users

8 hours

CADtech's *AutoCAD 2010 Update for AutoCAD 2009 Users* course introduces AutoCAD 2009 users to the application's new enhancements including updates to the primary method of selecting command tools, the Ribbon, and the new Application Menu. This course also provides users with an in-depth focus on Annotation tool updates, the new Measure tools, publishing and reference file enhancements, and customization updates. The most exciting new feature covered in the course is Parametric tools that can be used on objects and within Dynamic Blocks.

A major new feature is the introduction of geometric and dimensional constraints for 2D objects and dynamic blocks. These tools give you much greater control over how objects react when you modify them. There are several updates to publishing, including a streamlined Batch Plot/Publish dialog box and the opportunity to plot, publish, or export to PDF files.

Reference File tools have been streamlined and include contextual Ribbon tabs that give you quick access to the appropriate tools for the selected reference file. PDF files can be brought in as underlays.

There are also several updates to customization tools.

Topics include:

- The Application Menu
- Ribbon Updates
- Quick Access Toolbar Enhancements
- Text Updates
- Updates to Dimension Styles and Multileader Styles
- Hatching Updates
- Measuring Tools
- Working with Geometric and Dimensional Constraints
- Adding Constraints to Dynamic Blocks
- Publishing Enhancements including Exporting to PDF Files
- Reference File Updates including Contextual Ribbon Tabs
- Using Autodesk Seek
- Creating Industry-specific Workspaces
- Action Recorder Updates
- User Interface Customization Updates

Prerequisites: This course assumes familiarity with AutoCAD 2009. Many of the changes covered in the class are based on features that have appeared in recent releases of AutoCAD, such as annotation scales, workspaces, and InfoCenter. Students who are not familiar with the existing features in the software could need additional background to get up to speed in AutoCAD 2009. In this case the *AutoCAD 2009 Update for 2007/2008 2D Users* course could be helpful.

Manual: 154 pages

This course introduces the new 2D features of AutoCAD 2010 for users of AutoCAD 2008. Among the many changes in this new release are the primary methods for selecting command tools which include the Quick Access Toolbar, the Ribbon, and the Application Menu.

There are many other enhancements to the interface, including new commands in the Status Bar, Quick Properties, and updated tooltips. The command for annotation scales has been updated in the Status Bar and the synchronization of the viewport scales and annotation scales has been enhanced. Additional updates have been made to styles for text, dimensions, and Multileaders, and new Measuring tools. Quick View Layouts and Quick View Drawings are new methods of accessing existing layouts in a drawing or currently open drawings, respectively.

A major new feature is the introduction of geometric and dimensional constraints for 2D objects and dynamic blocks. These tools give you much greater control over how objects react when you modify them. The introduction of the DWFx file format, which functions similar to the original DWF format and can be viewed in Windows Vista or Internet Explorer 7 without using a separate viewer, is new, as well as the inclusion of Autodesk Design Review, which views and marks up DWF and DWFx files and views PDF files.

There are several updates to publishing, including a streamlined Batch Plot/Publish dialog box and the opportunity to plot, publish, or export to PDF files. Reference File tools have been streamlined and include contextual Ribbon tabs that give you quick access to the appropriate tools for the selected reference file. PDF files can be brought in as underlays. There are also several updates to customization tools.

The main topics covered in the course include:

- The Application Menu
- Ribbon updates
- Quick Access Toolbar enhancements
- Enhanced Layer Properties Manager
- Quick Properties
- Quick View Layouts and Quick View Drawings
- Annotation Scales
- Text updates
- Updates to dimension styles and multileader styles
- Hatching updates
- Measuring tools
- Working with geometric and dimensional constraints
- Adding constraints to dynamic blocks
- DWFx Files
- Publishing enhancements, including exporting to PDF files
- Reference File updates, including contextual Ribbon tabs
- Using Autodesk Design Review
- Using Autodesk Seek
- Creating industry-specific workspaces
- Action Recorder updates
- User Interface Customization updates
- Action Recorder
- User Interface Customization update

Prerequisites: This course assumes familiarity with AutoCAD 2008. Many of the changes covered in the class are based on features that have appeared in recent releases of AutoCAD, such as annotation scales, workspaces, and InfoCenter.

Manual: 234 pages

Update to AutoCAD 2009 / 2008 from AutoCAD 2007/ 2006

8 hours

This course introduces AutoCAD 2009/2008's new features to those using the two dimensional drawing methods in AutoCAD 2007/2006. The primary method of selecting command tools is now the Dashboard, which provides easy access to the most commonly used tools and can be customized to suit a variety of preferences. There is a new 2D Drafting and Annotation Workspace, changes and enhancements to Customization, References, Tables, and Plotting and Recovery, and for those working with MicroStation DGN files, there are new DGN importing and exporting tools. Layer updates include changes to the Layer Properties Manager and enhancements to Layer States. Annotative objects and styles are another major new feature of AutoCAD 2008. Annotative objects can include Text, Mtext, Hatches, Blocks, Attributes, Dimensions, Leaders, Multileaders, and Tolerances.

Topics include:

- Changes to the Interface
- Updates for Tool Palettes and Blocks
- Updates to Layouts
- Plotting and Recovery Updates
- Layer Properties Manager, Layer States, and Layer Tools Updates
- Annotation Enhancements
- Table Updates
- External References Updates
- Importing and Exporting DGN Files (Optional)
- Customizing the Interface

Prerequisites: This course assumes familiarity with AutoCAD 2007 or 2006. Many of the changes covered in the class are based on features that have appeared in recent releases of AutoCAD, such as tables, tool palettes, and sheet sets. Students who are not familiar with the existing features in the software could need additional background to get up to speed in AutoCAD 2007. In this case the *AutoCAD 2007 Update for 2005 2D Users* course could be helpful.

Update to AutoCAD 2009 / 2008 from AutoCAD 2005 / 2004

12 hours

This course provides AutoCAD software users that are transitioning to AutoCAD 2009/2008 an in-depth understanding of the new and enhanced features offered in AutoCAD 2006, 2007, 2008 & 2009. Learn how to improve 2D drafting productivity by using the new 2D Drafting and Annotations workspace including the Dashboard and Dynamic Input. Also learn how to increase productivity with the new drawing annotation functionality including annotation scales, Multileaders, as well as text, hatch, and dimensioning enhancements.

Many new layer tools are covered along with the updated Layer Properties Manager for easier layer control. Several small but powerful updates make setting up layouts and plotting much simpler. Learn how to use and create Dynamic Blocks that revolutionize the way blocks work as well as manage drawing, image, DWF, and DGN references in the new External References palette.

Topics include:

- The 2D Drafting and Annotation Workspace
- Working with Dynamic Input
- Enhancements to commands
- Annotation Scale
- Enhancements to text, hatching, and dimensions
- Using and Creating Dynamic Blocks
- New Layer Tools
- Other special features (Plotting Updates, Sheet Set Enhancements, Quick Calculator, Drawing Recovery)

Autodesk
Authorized Publisher

www.autocadtraining.com

AutoCAD Fundamentals – AutoCAD 2010, 2009, 2008 or 2007

AutoCAD Fundamentals – Part 1	24 hours
AutoCAD Fundamentals – Part 2	16 hours

The objective of AutoCAD Fundamentals is to enable students to create a basic 2D drawing in AutoCAD. Learning to use AutoCAD is not a trivial undertaking; to make the process easier and provide flexibility for instructors and students, this course is divided into two parts that may be taken independently.

Fundamentals, Part 1 (three days) covers the indispensable core topics for working with AutoCAD. The teaching strategy is to start with a few basic tools that allow students to create and edit a simple drawing. We then continue to develop those tools, as well as introducing more advanced tools throughout the course. Not every command or option is covered, because the intent is to show the most essential tools and concepts.

Topics in Fundamentals, Part 1 include:

- Understanding the AutoCAD workspace and user interface
- Using basic drawing, editing, and viewing tools
- Organizing drawing objects on layers
- Inserting reusable symbols (blocks)
- Preparing a layout to be plotted
- Adding text, hatching, and dimensions

Fundamentals, Part 2 (two days) continues with more sophisticated techniques that will extend the user's mastery of the program. For example, here we go beyond the basic skill of inserting a block to learn how to create blocks, and beyond the basic skill of using a template to understand the process of setting up a template.

Topics in Fundamentals, Part 2 include:

- Using more advanced editing and construction techniques
- Creating local and global blocks
- Setting up layers, styles, and templates
- Working with advanced layout and plotting tools

AutoCAD Advanced - AutoCAD 2010, 2009

24 hours

AutoCAD Advanced is the second in the series of AutoCAD courses and is designed to teach AutoCAD® users about the software's more advanced functionality. This updated training guide covers AutoCAD® new Action Recorder feature, which records the commands a user runs and automates tasks without programming experience, as well as the new Ribbon interface for accessing commands. Focus is also placed on the application's advanced annotation, drawing with complex objects, and defining blocks and attributes.

Topics include:

- Advanced Text Objects
- Creating Tables
- Defining dynamic blocks and attributes
- Using external reference files and image files
- Creating sheet sets
- CAD Management and System Setup
- Enhancing productivity with interface customization of AutoCAD

Students should be comfortable with the basics of creating an AutoCAD drawing as taught in *AutoCAD Fundamentals*. Our teaching strategy is to demonstrate the versatility of AutoCAD by showing a range of options to achieve a particular result, and to suggest where one option can be better than another under given circumstances. Students should practice the topics and concepts discussed in this class, and apply them in ways appropriate for their work.

Prerequisites: AutoCAD Fundamentals (or equivalent) and at least 80 hours of experience with AutoCAD.

AutoCAD Advanced - AutoCAD 2010, 2009, 2008 or 2007

24 hours

This course is suitable for students comfortable with the basics of creating an AutoCAD drawing, as taught in AutoCAD Fundamentals. It focuses on using advanced annotation, drawing with complex objects (including polylines, regions, and advanced text objects), defining blocks and attributes, using external reference files and image files, using layouts and advanced plotting features, creating sheet sets, and enhancing productivity with simple customization.

Topics include:

- Advanced annotation
- Advanced blocks and attributes
- Referencing and sharing information
- Sheet sets
- Layouts and plotting
- CAD management
- Introduction to customization

Maximizing AutoCAD

The best of latest AutoCAD tools, tips and techniques. 8 to 16 hours

This one day workshop was created to help design professionals use AutoCAD® and AutoCAD LT® more efficiently so that you can concentrate on the art of design instead of wasting valuable time on repetitive tasks.

Master Set Up & Organizational Skills

Learn quick and efficient ways to set up office standards and conventions so that everyone in the office is on the same page.

- Introduction to sheet sets, the new power tool for one-stop sheet organization and management.
- Eliminate repetition by editing your own settings once, and only once.
- Copy your blocks and settings directly from a drawing into the AutoCAD® tool palettes.
- Take your settings with you wherever you go by creating your own toolbox and tool palettes.
- Stop hunting and pecking all day for blocks, dim styles, text styles, etc.-find them immediately every time, using tool palettes and design center.
- Set up dimension and text styles ONCE and use them anywhere at any time and use autoscaling in 2008
- Insert your standards into existing drawings including layers, text styles, layouts, etc.

Streamline Production

Learn little known tips, tricks and settings that will simplify your life.

- Learn to utilize the best features added in the new versions AutoCAD®.
- Create blocks and annotation that adjust their size according to the drawing and viewport scale.
- Create and edit block libraries with attributes and link them to the dynamic tables and Excel spreadsheets.
- Save time using the enhanced integrated tables for quick creation of schedules and tables.
- Attach object information (such as the areas of several objects) to tables to automatically calculate totals.
- Set up and utilize layouts and page set ups correctly and efficiently every time. Don't miss this amazingly simple, eye-opening demonstration of layouts! You will understand layouts and save time by using this simple but powerful tool.
- Take control of the new plotting and output features, standardize and automate output of multiple drawings...any design, any scale, any sheet size...anytime...fast and accurately.
- Use xrefs, overlays and DWFs to speed production and reduce mistakes.
- Utilize high-end xref and layout features and tips to organize and expedite large projects.
- Use hidden commands, options and tools that you may have never known existed.

Discover New Output & Security Options

This section covers the new tools available to add multiple layers of security to your documents and output. Also, give your clients the flexibility to view and print your documents from any computer.

- Create and organize drawings -DWF and PDF- that can be viewed without AutoCAD.
- Output full ordered sheet sets to your plotter or to digital format in just a few clicks.
- Create high-resolution JPEG, TIFF, DWF and PDF files directly from AutoCAD® for Free!
- Add security to your drawing files by adding passwords and digitally signing them.

Lose Your Fear of Customization

This section demonstrates several customization features which will help you to standardize and organize your version of AutoCAD® for a more efficient and consistent product. Also make AutoCAD® work more efficiently by creating an environment in which you are comfortable. Learn to create personal toolbars and hot keys as well as an overview of how to load and use AutoLISP routines. Learn to lose your fear of customization and open up a whole new world of timesaving techniques.

- Shortcut your commands into one or two keystrokes.
- Make the function keys (F1) and the [Ctrl] keys work for you.
- Edit and create toolbars and flyouts to reduce repetitive tasks by grouping multiple commands under one button.
- Add commands to AutoCAD® by using AutoLISP.

Become a Master Troubleshooter

Everyone has dealt with a drawing that appears to be haunted (or downright cursed in some cases). This section will help you tame the beast, and more importantly, ward off such drawings in the future.

- Detect, correct, and avoid problem drawings.
- Clean up, repair, and archive files for safekeeping.
- Find free AutoCAD® help when all you're getting from the office guru is a blank stare.

AutoCAD 3D Drawing & Modeling – 2009, 2008 or 2007 24 hours

More and more AutoCAD users are venturing out of their traditional and familiar two-dimensional world to explore the possibilities of 3D space. Thanks to many software enhancements in this area, 3D is an increasingly useful and widespread tool. However, the leap into three dimensions requires some changes in thinking and drawing habits.

This course introduces users who are proficient with AutoCAD's 2D commands to the concepts and methods of 3D modeling. The course gives a thorough grounding in 3D fundamentals and explores the main features of AutoCAD's advanced 3D workspace.

Topics include:

- 3D viewing techniques
- Working with simple and composite solids
- Creating complex solids and surfaces
- Creating & modifying 3D objects
- Converting 3D objects and creating composite solids
- Perspectives & rendering
- Working with layouts
- Creating 2D drawings from 3D models
- Working with a User Coordinate System
- Getting information about the model

AutoCAD Plotting & Sheet Sets 8 hours

Sheet Sets, Layouts, Page Setups, Pen Sets, & Plotter configuration

Plotting is one of the most important aspects of AutoCAD, and for many it is also one of the most misunderstood. This course is designed as a one-day survey of plotting and related features in AutoCAD 2008. It is an appropriate course for students upgrading from earlier versions of AutoCAD who need to master new techniques related to plotting, such as page setups, the Publish command, and sheet sets. It is also appropriate for students who require a better understanding of plotting concepts and techniques in AutoCAD. The course begins with the fundamentals of layouts and proceeds through more advanced or specialized features.

Topics include:

- Setting up a layout
- Working with viewports in layouts
- The Plot command
- DWF plotting and publishing
- Plot styles
- Using sheet sets
- Publishing and customizing sheet sets

Prerequisites: Students taking this course should be familiar with AutoCAD fundamentals including layers, blocks, text, and dimensions.

ARCHITECTURE

AutoCAD Architecture 2010, 2009 or 2008 Fundamentals:

24 hours

AutoCAD Architecture is "AutoCAD optimized for architecture." In addition to all the standard AutoCAD tools, it offers a host of features to greatly increase the speed and efficiency of architectural drawings. The software is designed to work from first concept (conceptual design or mass model) all the way through to design development, working drawings, and facility maintenance.

AutoCAD Architecture Fundamentals focuses on the design development and construction documentation features of AutoCAD Architecture—the basic tools that the majority of students will need in their work.

Topics include:

- Creating basic floor plans with walls, doors, and windows
- Creating specialty objects, such as column or ceiling grids, stairs & railing
- Adding roofs and floor slabs
- An introduction to Projects and the Project Navigator
- Adding furniture, fixtures, and equipment
- Creating details
- Showing elevations, sections, and perspectives
- Marks, tags & schedules, and other documentation

AutoCAD Architecture 2010, 2009 or 2008 Advanced:

24 Hours

AutoCAD Architecture is "AutoCAD optimized for architecture." In addition to all the standard AutoCAD tools, it offers a host of features to greatly increase the speed and efficiency of architectural drawings. The software is designed to work from first concept (conceptual design or mass model) all the way through to design development, working drawings, and facility maintenance.

AutoCAD Architecture Advanced focuses on conceptual design in the sense of massing studies and space planning as well as several more advanced features for greater control over the program. This course is intended primarily for architects and other advanced students who need the ability to design massing studies or space studies, or to customize settings in the AutoCAD Architecture environment.

Topics include:

- Understanding the Style Manager.
- Using advanced wall and section/elevation tools.
- Managing drawings with projects and applying project standards.
- Creating massing studies with mass elements and mass groups.
- Using spaces and areas to develop a building design.
- Defining multi-view blocks and creating custom content.
- Creating styles for AEC objects including walls, doors, windows, and curtain walls as well as annotation object styles.
- Customizing layer properties and the display system.

Prerequisites: Students should complete the *AutoCAD Architecture Fundamentals* course, or have equivalent experience with the software, before taking this class. They also need a solid background in AutoCAD, since AutoCAD tools and concepts will be essential for working with AutoCAD Architecture. In particular, students should be familiar with basic 3D viewing tools (preset viewpoints, 3D Orbit, and shading options), layouts, and xrefs (used in AutoCAD Architecture projects).

AutoCAD Electrical 2009 or 2008 Fundamentals

24 hours

AutoCAD Electrical 2008 Fundamentals covers the indispensable core topics for working with AutoCAD Electrical. In this course, students will learn to use many of the powerful electrical drawing creation tools in AutoCAD Electrical. Students will create schematic drawings, panel drawings, and PLC/IO circuits using automated commands for symbol insertion, component tagging, wire numbering, and drawing modification. Students will be introduced to methods to customize AutoCAD Electrical symbols, circuits, and databases. Other topics covered include title block linking, reporting tools, templates, and project files.

Topics include:

- Understanding Project files
- Creating and editing schematic and panel drawings
- Working with PLC symbols
- Point-to-point wiring diagrams
- Creating custom symbols
- Generating reports

Prerequisites:

AutoCAD Fundamentals. Knowledge of electrical terminology is an asset.

REVIT – Architecture, Structure & MEP

Revit Architecture Fundamentals – 2010, 2009 or 2008

24 hours

Revit Architecture is a powerful Building Information Modeling (BIM) program that works the way Architects think. From Preliminary Design through Design Development, and into Construction Documents, the program streamlines the design process with a central 3D model. Changes made in one view update across all views and on the printable sheets. The name “Revit” implies this ease of revision that is at the heart of the software.

Since building projects themselves tend to be extremely complex, Revit Architecture is a necessarily a complex program. The objective of the *Revit Architecture Fundamentals* course is to enable students to create full 3D architectural project models and set them up in working drawings. This class focuses on basic tools that the majority of users will need to work with Revit Architecture.

Topics include:

- Understand the purpose of Building Information Management (BIM) and how it is applied in Revit
- Use the Revit Architecture workspace and interface
- Add walls to a massing study and create a presentation sheet
- Work with the basic drawing and editing tools in Revit
- Create Levels and Grids as datum elements for the model
- Create a 3D building model with walls, windows, and doors
- Add floors and roofs to the building model
- Create standard and custom stairs
- Detail Reflected Ceiling Plans with ceilings and lighting fixtures
- Add component features, such as furniture and equipment
- Set up sheets for plotting with text, dimensions, details, tags, and schedules

Prerequisites: an understanding of Architectural terminology is an asset.

Manual: 406 pages

Revit is a powerful parametric 3D modeling program for designing buildings. "Parametric" refers to the way Revit objects are defined by parameters, such as dimensions—you can change a dimension and the model updates automatically, or change the model and all the views and drawing sheets based on it update automatically as well. The name "Revit" implies this ease of revision that is at the heart of the software.

This course is intended for students who have completed Revit Architecture Fundamentals training and are ready to explore more advanced features in the software. Knowledge of basic techniques is assumed, such as creating walls, roofs, and other objects; copying and moving objects; creating and working with views; etc.

The objective of the *Revit Architecture Intermediate* training guide is to enable students who have a basic knowledge of Revit to increase their productivity through additional collaboration tools, advanced design development tools, and advanced construction document tools.

Topics include:

- Set up project phasing
- Create and display a variety of design options
- Use groups
- Link Revit files
- Import and export files, including exporting for energy analysis
- Understand, use, and set up worksets
- Create multiple-slope floors, roofs, and slabs
- Create curtain walls
- Work with site design and structural design tools
- Create and annotate details
- Create schedules, including material takeoff schedules
- Add keynotes and legends
- Work with advanced viewing tools

Note: The chapters in the training guide are largely independent of one another. Depending on the time available and the needs of a particular class, our instructor can choose to focus on certain chapters and omit others. Also, at this advanced level, some of the chapters tend to be highly specialized (e.g., structural or site design). These can be covered or not depending on the interests of the class and the schedule.

Prerequisites: Students who enroll in this course should be comfortable with the fundamentals of Revit as taught in the *Revit Architecture Fundamentals* course. Knowledge of basic techniques is assumed, such as creating walls, roofs, and other objects; copying and moving objects; and creating and working with views.

Manual: 366 pages

Revit Architecture Advanced - 2010, 2009 or 2008

16 hours

This course builds upon *Revit Architecture Fundamentals* and *Revit Architecture Intermediate*. The Student Guide focuses on customizing and expanding tools that Revit® Architecture users work with on a daily basis including the Project Browser, schedules, and elevations. It includes advanced family processes for creating custom cornices and copings as well as stairs and railings. It exposes users to data exchange options with other design packages for energy analysis and massing studies and provides an in depth look at Worksets for effective project collaboration and data sharing within the Revit family of products. Students will also learn how to create and import site information into their models and add structural components.

This course is intended for students who have completed Revit Architecture Fundamentals and Intermediate training and are ready to explore more advanced features in the software. Knowledge of basic techniques is assumed such as creating walls, roofs, and other objects; copying and moving objects; creating and working with views.

Topics include:

- Customizing the Project Browser
- Creating Material Takeoff Schedules
- Creating and Modifying Interior Elevations
- Creating in-place families for copings and cornices
- Working with shared parameters
- Exporting to gbXML
- Working with SketchUp files
- Using worksets
- Structural tools and site planning
- Creating custom stairs and railings

Manual: 324 pages

Revit Structure Fundamentals - 2010 or 2009

24 hours

To take full advantage of Building Information Modeling, CADtech's *Revit Structure Fundamentals* training is designed to teach users the concepts and principles from building design through construction documentation using Revit Structure. Our training is intended to introduce students to the software's user interface and the basic building components that make Revit a powerful and flexible structural modeling tool.

Our goal is to familiarize you with the tools necessary to create, document, and print your parametric model. The examples and exercises are designed to reflect as many different building types as possible.

Topics include:

- Introduction to Revit Structure
- Views
- Revit Structure Design Tools
- Starting a Structural Project (overlays, foundations)
- Framing Systems
- Elevator Shafts, Stairs, and Ramps
- Annotation, Detailing, and Scheduling
- Sheets and Printing

Prerequisites: This course introduces the fundamental skills in learning Revit Structure. It is highly recommended that students have experience and knowledge in structural design and its terminology.

Manual pages: 406

Revit Structure 2010 or 2009 Advanced

Total Hours: 24

Students learn a wide range of advanced topics in Revit® Structure 2009, building on the concepts introduced in the Revit Structure 2009 Essentials course. Hands-on exercises teach students about detailing and detail components, rebar, families, analytical analysis, as well as how to collaborate on a design with other professionals.

Prerequisites: Fundamentals Recommended

Manual pages: 322

For more information on the Revit Training, contact us and we can send over a copy of the table of contents of each training manual. This will give you an in-depth overview of what is covered in each of the Revit Training classes.

Revit MEP 2010 or 2009 Fundamentals

Total Hours: 24 -32

To take full advantage of Building Information Modeling, CADtech's *Revit MEP 2009 Fundamentals* training is designed to teach users the concepts and principles from building design through construction documentation using Revit Structure 2009. Our training is intended to introduce students to the software's user interface and the basic building components that make Revit a powerful and flexible MEP modeling tools.

Course Objectives

After completing this course, you will be able to:

- Describe Building Information Modeling methodology.
- Use the Revit MEP user interface and work with different types of Revit elements and families.
- Explore views in the Project Browser, control the visibility and appearance of elements in different views, and create and modify section, elevation, and 3D views.
- Set up a project using different templates, define discipline settings, import and edit DWG/TB details, and link Revit models.
- Represent volumes using spaces, create zones, and analyze an analytical model for building performance analysis.
- Define heating and cooling loads information and calculate heating and cooling loads.
- Create HVAC systems, generate HVAC system layouts, and create and modify ductwork using Revit MEP tools.
- Lay out and create system piping.
- Create plumbing systems.
- Create fire protection systems.
- Create electrical circuits and wiring.
- Check and fix interference conditions and monitor changes in files of other disciplines linked to Revit MEP.
- Create callout views, create and use detail views, and work with drafting views.
- Work with text and tags, dimensions, and schedules and create legends with notes, annotation symbols, and model elements.
- Add and work with titleblocks, create and modify sheets, and specify print options and print documentation sets.

Prerequisites

This course is designed for MEP engineering professionals, design professionals and drafting professionals.

It is recommended that you have a working knowledge of:

- MEP engineering and design.
- Microsoft® Windows® 2000 or Microsoft® Windows® XP.

Manual pages: 446

For more information on the Revit MEP training, contact us and we can send over a copy of the table of contents of the training manual. This will give you an in-depth overview of what is covered in the Revit MEP Training class.