

## AUTOCAD® UPDATE 2012 FOR 2011 USERS

Our AutoCAD Update 2012 class is a fast paced course that covers the new features and enhancements since the 2011 release. Among the many changes in this new release are the general user interface components such as, Command Line, UCS, Ribbon, Multifunctional Grips, Object selections, Snapping, Quick Properties, External References, and Layers. For the complete course outline, please visit our website. *Length: 1 day*

*Dates: call for details*

## AUTOCAD® CONCEPTUAL DESIGN AND 3D MODELING

Learn to use core AutoCAD commands to create compelling conceptual designs using simple techniques and commands to quickly mass shapes, use raster images and visualize your designs with materials, visual styles and animated walkthroughs. On the second day, we will cover subjects in 3D modeling such as creating solid primitives, solid or surface models from cross-sectional geometry, completing solid model design, converting 2D objects to 3D objects and documenting a 3D design. *Length: 2 days*

*Dates: call for details*

## INTRODUCTION TO AUTOCAD®

For the beginning AutoCAD user, this hands-on 3 day course introduces the user to AutoCAD. If you are not currently using AutoCAD or using version 2008 or older, this course will get you started. Upon completion, you will be able to use AutoCAD to design and draft in 2D. You will be confident in using AutoCAD to create, layer, edit, modify, annotate, dimension and prepare sheets for plotting. *Length: 3 days*

*Dates: Portland 1/25-27, 4/11-13 | Seattle 1/17-19, 3/21-23*

## INTERMEDIATE AUTOCAD®

Following our Introduction to AutoCAD course, this 3 day class introduces the user to features, commands and techniques for becoming more productive when creating, annotating, and printing drawings with AutoCAD. Topics include advanced objects, advanced dimensioning, manipulating objects and data, dynamic blocks, plotting and more! *Length: 3 days*

*Dates: Portland 4/18-20 | Seattle 2/6-8*

View course outlines and pricing at  
[www.thePPIgroup.com/coursecatalogs.html](http://www.thePPIgroup.com/coursecatalogs.html)



**PPI**  
GROUP

Looking for more advanced  
AutoCAD® courses? Please contact  
our training coordinator at  
[info@theppigroup.com](mailto:info@theppigroup.com)

## AUTOCAD CIVIL 3D UPDATE 2012 FOR 2009/2010 USERS

The PPI Group's Civil 3D 2012 Update for 2009/2010 users is a fast paced course that covers the new features in 2012. This course is intended to get students productive with the features and enhancements since AutoCAD Civil 3D 2009/2010. Changes in the subsequent releases include a revised interface including new Ribbon toolbars. If you are upgrading from a different version, please contact us for other class offerings not listed. *Length: 1 day*

*Dates: call for details*

## INTRODUCTION TO AUTOCAD® CIVIL 3D®

AutoCAD Civil 3D is a powerful civil engineering tool that creates intelligent relationships between objects so design changes are dynamically updated. This course provides the student with a foundation for using the dynamic technology of Civil 3D. Everything from importing points and creating surfaces, to finished corridor/road design will be covered. You will leave this class confident that Civil 3D is the design tool for you. *Length: 3 days*

*Dates: Portland 1/17-19, 2/27-29, 3/12-14, 4/9-11, 4/25-27  
Seattle 1/30-2/1, 2/28-3/1, 3/26-28, 4/23-25*

*New! SATURDAY CLASS OPTION – Save \$200:  
Portland – Feb. 11, 18, 25*

## STYLES FOR AUTOCAD® CIVIL 3D®

Learn the use of Styles within AutoCAD Civil 3D during this in-depth class that walks the student through building and customizing each component of Civil 3D Styles. The student will then be able to apply these styles to their own company standards and will take these styles back to the office at the conclusion of the course. *Length: 2 days*

*Dates: Portland 1/23-24 | Seattle 1/10-11*

## NEW! FINALIZING YOUR DESIGN IN AUTOCAD® CIVIL 3D®

Learning the powerful Civil 3D design package is one thing, but actually generating finalized sheets is quite another. Our skilled technical specialists have found this to be one of the main stumbling blocks that our clients experience during the transition to Civil 3D. This one day class has been designed to simplify the overall process by shedding light on many misunderstood project and data management concepts as well as exploring many time saving techniques. Civil 3D is here to stay, and there is light at the end of this tunnel.

*Dates: Call for details*

## CREATING A SUSTAINABLE DESIGN IN AUTOCAD® CIVIL 3D®

Learn how to generate sustainable design for land development, environmental and transportation projects. The goal of the course is to identify Civil 3D tools, features and procedures that can be used to support a sustainable design approach. *Length: 1 day*

*Dates: call for details*

## ADVANCED GRADING FOR AUTOCAD® CIVIL 3D®

This one day class will get you familiar with grading features and techniques not covered in our Introduction course. Your hands-on project will take you through grading a road using corridors and assemblies. Learn how to lay out building pads and general ponds as well as, how to import a 2D site with parking lots and building pads and convert it to a 3D surface. The final surface will be ready to transfer over to be used in machine control. *Length: 1 day*

*Dates: Portland 2/14 | Seattle 2/9*

## USING VAULT IN AUTOCAD® CIVIL 3D®

With Autodesk® Vault your civil engineering teams can work together to complete projects faster and better. This half-day class introduces the user to features, commands and techniques for becoming more productive when creating, modifying and managing projects with Vault. *Length: 4 hours*

*Dates: Portland 2/10 | Seattle 3/20*

## USING PART BUILDER IN AUTOCAD® CIVIL 3D®

In this one day course the student will learn how to edit AutoCAD existing Structures and Pipes in AutoCAD® Civil 3D®. Upon completion of this class, the student will be proficient in working with Part Builder. *Length: 1 day*

*Dates: Portland 3/19 | Seattle 4/19*

## DESIGNING INTERSECTIONS IN AUTOCAD® CIVIL 3D®

Learn the recommended workflows and basic skills needed to create, model and modify Intersections and Cul-de-Sacs in Civil 3D including alignments, transitions and road widening, intersections and cul-de-sacs. Upon completion of this class, the student will be proficient in creating and working with the design process. *Length: 1 day*

*Dates: Portland 1/31 | Seattle 2/10*

## PIPING DESIGN IN AUTOCAD® CIVIL 3D®

This one-day course will teach the piping features available in AutoCAD Civil 3D. Students will learn how to modify parts using Part builder, apply pipe rules, create and modify pipe designs, and perform a hydraulic analysis of the pipe network in both a custom spreadsheet and in the Hydraflow Storm Sewers Extension through a series of instruction and hands-on exercises. *Length: 1 day*

*Dates: Portland 3/23 | Seattle 4/13*

## INCORPORATING SURVEY WITH AUTOCAD® CIVIL 3D®

Our in-depth one day training course is for civil engineers, surveyors, and survey technicians that have completed the Introduction to Civil 3D course. Through hands-on practical exercises, you will further your training in the survey functionality. This class is purposed for those focusing on data collection, traverses, and related issues. *Length: 1 day*

*Dates: Portland 4/16 | Seattle 4/12*

## ROAD DESIGN IN AUTOCAD® CIVIL 3D®

Our one day class will give you an in-depth look at Roadway Design using assemblies in AutoCAD Civil 3D. Through hands-on exercises, students will learn how to use techniques in Civil 3D for new Road Design, existing Road Rehabilitation and Widening. *Length: 1 day*

*Dates: Portland 4/17 | Seattle 1/20*

## COLLABORATION

### INTRODUCTION TO NAVISWORKS®

This course will teach you how to reliably share, unite, review and polish your 3D design models from multiple formats. Navisworks will save you RFI and Collision issues. Learn how to open and append 3D files of different formats for project review, perform visual project model approval using the built-in review and reporting tools and perform interference detection tests between 3D files of different disciplines. *Length: 1 day*

*Dates: Portland 2/6, 4/20 | Seattle 1/9, 3/12*

### INTRODUCTION TO AUTOCAD® MAP 3D

In two days learn how Map 3D can be used to leverage the collaborative design abilities of your organization. Learn how to load and edit information from multiple sources in to one work session, create and perform complex information queries from these resources and export this info to other formats such as a database or spreadsheet. Course also includes instruction on how to link together drawings and databases for automatic update and use Map's capability to read and write other file formats such as ESRI and MapInfo. *Length: 2 days*

*Dates: Portland 3/20-21 | Seattle 2/21-22*

### AUTOCAD® MAP 3D FOR GEOSPATIAL

Leverage the collaborative design abilities of your organization after you learn about the geospatial features and functions of AutoCAD Map 3D. Topics include how to create, manage and analyze geospatial data. Students will also learn fundamental and advanced features of the geospatial tools. *Length: 1 day*

*Dates: Portland 3/22 | Seattle 2/23*

*PPI also offers complementary CAD programs and training that integrate with Autodesk solutions, such as SITEOPS®, Basepin™ and Edgewise™. Visit our website for details.*

## INTRODUCTION TO AUTOCAD® ARCHITECTURE

Our 3 day course introduces the fundamental features in AutoCAD® Architecture. Students will explore methods to create complex roofs and floors. You will also learn the tools provided for generating schedules. Upon completion you will be able to use the software to design and draft a set of construction documents. *Length: 3 days*

*Dates: call for details*

## INTRODUCTION TO REVIT® ARCHITECTURE

The most popular 3 day Revit class in the Pacific Northwest, features our expert Revit instructors. Learn the fundamental principles in Revit Architecture through project based hands-on instruction. Students will create floor plans using walls, doors and windows; add furniture fixtures, create specialty family types directly from the model and create design and construction documents. *Length: 3 days*

*Dates: Portland 1/11-13, 2/7-9, 3/7-9, 3/28-30, 4/23-25  
Seattle 1/23-25, 2/13-15, 3/5-7, 4/9-11*

*New! SATURDAY CLASS OPTION – Save \$200:  
Portland – Jan. 7, 14 & 21*

## INTERMEDIATE REVIT® ARCHITECTURE

Our Intermediate Revit Architecture course is a hands-on class that covers a wide range of intermediate topics, continuing to build on the concepts introduced in the PPI Group's Introduction to Revit Architecture class. Students will learn about site design, phasing and design options, how to collaborate on a design, working with structural tools, view templates and much more. *Length: 2 days*

*Dates: Portland 2/15-16 | Seattle 3/13-14*

## ADVANCED REVIT® ARCHITECTURE

We've shortened this class by one day, to truly offer only the advanced concepts of Revit Architecture. This next step in our Revit training series continues to build on the concepts introduced in our Intermediate course. Students will learn about working with the conceptual design tools, rendering techniques, work with system families, how to create families of custom components, and much more. *Length: 2 days*

*Dates: Portland 3/15-16 | Seattle 4/16-17*

## REVIT® ARCHITECTURE FAMILIES

One of the biggest challenges for Revit® Architecture users is the Family Editor. This class will demystify the Family Editor environment through real-world examples and hands-on exercises. Topics include an introduction to families and their parameters, custom tags, object size, setting categories, formulas and parameters. *Length: 1 day*

*Dates: Portland 2/17 | Seattle 3/19*

## REVIT® ARCHITECTURE COLLABORATION TOOLS

The goal of this one day class for the existing Revit user, is to increase the student's productivity while working with other people on a team, either in the same firm or with other firms, and working with Revit files or other CAD files. You will learn to set up project phasing, create and display design options, use groups, link files and understand and use worksets. *Length: 1 day*

*Dates: Portland 1/20 | Seattle 4/18*

## INTRODUCTION TO REVIT® MEP – MECHANICAL

Learn the essential functionality of Revit Mechanical. Through lecture and hands-on exercises, the student will learn about building information modeling (BIM), navigate through the program interface, manage views and work with many other powerful mechanical features. *Length: 2 days*

*Dates: Portland 1/24-25 | Seattle 2/16-17*

## INTRODUCTION TO REVIT® MEP – ELECTRICAL

Learn the essential functionality of Revit Electrical. Through lecture and hands-on exercises, the student will learn about building information modeling (BIM), navigate through the program interface, manage views and work with many other powerful electrical features. *Length: 2 days*

*Dates: Portland 2/28-29 | Seattle 3/8-9*

## INTRODUCTION TO REVIT® MEP – PLUMBING

Learn the essential functionality of Revit Plumbing. Through lecture and hands-on exercises, the student will learn about building information modeling (BIM), navigate through the program interface, manage views and work with many other powerful plumbing features. *Length: 2 days*

*Dates: Portland 3/26-27 | Seattle 4/26-27*

## REVIT® MEP FAMILIES

One of the biggest challenges for Revit MEP users is the Family Editor. This class will demystify the Family Editor environment through real-world examples and hands-on exercises. Topics include, intro to families, creating custom tags and family parameters. *Length: 1 day*

*Dates: Portland 3/28 | Seattle 4/30*

## INTRODUCTION TO REVIT® STRUCTURE

Learn the essential features and functionality of Revit Structure. The student will experience the power of building information modeling (BIM) as you are taught how to navigate through the program interface, manage views and identify different types of structural elements. Learn how to create levels, work with walls, sections, elevations, roofs, stairs, ramps and more! *Length: 3 days*

*Dates: Portland 2/21-23 | Seattle 1/11-13*

## INTRODUCTION TO ECOTECT™ ANALYSIS

Learn how this concept-to-detail sustainable design analysis solution can help you to conduct simulations and visualize results. In two days you will learn how to use the architect-designed desktop tools to measure the impact of environmental factors on a building's performance and use the web-based technology for whole building analysis. *Length: 2 days*

*Dates: call for details*

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*Dates: Portland 2/6, 4/20 | Seattle 1/9, 3/12*

## VISUALIZATION

### INTRODUCTION TO 3DS MAX DESIGN

3ds Max delivers innovative tools for shaping new worlds, managing complexity with ease, and evolving your pipeline. Hands-on exercises throughout this course demonstrate the modeling process using techniques that can be applied to the mainstream drafting industries. *Length: 3 days*

*Dates: Call for details*

### NEW! INTRODUCTION TO SHOWCASE®

In this one day course, you will learn how to prepare 3D models and designs for presentation using Autodesk Showcase®. Through hands-on exercises, you will learn the basics of Showcase, how to navigate its interface and import and adjust geometry. You will prepare a design for presentation by applying and configuring environments, controlling lights and shadows, and assigning materials and decals to the design geometry. *Length: 1 day*

*Dates: Call for details*

View course outlines and pricing at  
[www.thePPIgroup.com/coursecatalogs.html](http://www.thePPIgroup.com/coursecatalogs.html)

## REVIT® ARCHITECTURE E-SERIES

*Watch these informative, LIVE e-series with our expert Revit instructors from the comfort of your office!*

WORKING WITH WALLS – 1/10

BASIC FAMILY CREATION – 2/14

RENDERING WITH REVIT – 3/13

SCHEDULES 101 – 4/10

WORKING WITH ROOFS – May 2012

CONCEPTUAL DESIGN – June 2012