

2008 CADWorx User Conference Courses

General

PVElite for Designers – Scott Mayeux, COADE

Developing vessel and heat exchanger models is only half the work. These pieces of equipment also need to be fabricated to engineering standards. PVElite is the tool used to calculate code compliance of vessels and heat exchangers for manufacturing. This course will teach you how to use the PVElite - CADWorx bidirectional interface and give you a background on using PVElite.

Maximizing Performance of the CAESAR II - CADWorx Interface

Tom Van Laan, COADE

Once a piping system has been laid out it often must be analyzed by pipe stress engineers, in order to verify whether it can withstand weight, pressure, thermal, seismic, and other loads. As CAESAR II is the standard tool used by pipe stress engineers throughout the world, CADWorx's seamless bi-directional interface with CAESAR II every day saves numerous engineers countless hours of modeling time while assuring that all project participants are working with up-to-date design data. This course will teach you how the CAESAR II - CADWorx interface works, and how to maximize the data sharing capabilities in a way that provides the most "stress-free" interaction between the two software programs.

CADWorx Design Review – David Little, COADE

Reviewing 3D models is important to any design project. CADWorx Design Review is the tool used for design review of any size project from the simple to the complex. This course will teach you how to use this new tool in your design review processes.

Project Setup for LAN – Venkat, Image Grafix

Setting up CADWorx in your design environment is easy but needs some planning. Whether a small company or a multi-national each one needs to take steps to make the most of CADWorx. This course will teach you how to setup your folder/file structure on a LAN/WAN, how to setup a project database and which database system to use, and how to setup your security and who should have access to what files.

The future of CADWorx – Discussion – Joseph Dixon, COADE

CADWorx is always changing for the better thanks to its extensive user base. Discuss with the CADWorx Program Manager what direction COADE is taking CADWorx in the near term and the extended future.

CADWorx Enhancement Requests – Discussion – Joseph Dixon, COADE

You, the user of CADWorx, have your way of doing things. Most of the time you develop efficient ways of using the CADWorx tools to fit your environment, workflow and projects. Discuss with the CADWorx Program Manager your ideas of a better CADWorx. How can CADWorx be improved to meet some of your needs.

ISOGEN

ISOGEN Setup – Robert Riley, ECAD

The final deliverable of any project is drawings. ISOMETRICS are the primary drawings produced and ISOGEN is the tool CADWorx uses to generate these drawings. With the power of ISOGEN comes the complexity of the setup. This course will teach you how to setup ISOGEN to meet your company needs.

ISOGEN Customization – John McWilliams, Mustang Engineering

ISOGEN is the tool to produce ISOMETRIC drawings inside CADWorx. To meet your company standards customizing ISOGEN is a requirement. In this course you will learn how to customize ISOGEN to meet these standards.

ISOGEN Optimization – LAB – Pat Patel, COADE

ISOGEN is very powerful and this course will demonstrate some of this power. Learn how to use user shapes and SKEY's to get what you want in your drawings. Learn how to use the symbol editor to create custom symbols and assign your own SKEY's to have ISOGEN use them automatically and to develop detail sketches.

P&ID

Introduction to CADWorx P&ID – LAB – John Brinlee, COADE

Good design starts with a good P&ID. All good designers know how important P&ID's are to the overall project and most have experienced frustration with poor P&ID design. This course will demonstrate CADWorx P&ID and how this integrated design tool can help you with your design projects and eliminate some of these frustrations. You will see how CADWorx P&ID will link your work with CADWorx Plant so the data from a good P&ID can be directly used in your modeling designs.

Advanced CADWorx P&ID – LAB – David Wolfe, Proformance Group

CADWorx P&ID is a very powerful tool used to generate P&ID's. In this course you will learn how to take advantage of this power by using the database features of CADWorx P&ID. You will also learn how to make existing legacy P&ID's intelligent and how to transfer P&ID drawings and data between projects allowing you to develop standards and reuse CADWorx P&ID drawings on new projects. You will see how to use dynamic blocks in your P&ID's.

CADWorx P&ID Tools – William Rasco, ECAD

CADWorx P&ID Pro comes with several tools to help you develop your required drawings more efficiently. In this course you will learn how to use CADWorx Datasheets, CADWorx LOOPS, and CADWorx IP. Each of these tools have a specific requirement that they help fulfill.

2009 CADWorx P&ID – LAB

Many new enhancements have been added to CADWorx P&ID. In this course you will see these enhancements in action and learn how to use them in your P&ID development.

Plant

Using FieldPipe – Brian Cudd, COADE

Field verification and data accusation has always been required in piping design. From building a new project to interfacing with existing equipment to verifying dimensional data and finally as built generation. These tasks are required to complete the projects at hand. CADWorx FieldPipe is the tool to use. In this Course you will see how to use CADWorx FiledPipe to gather dimensional data from the field and generate 3D models of the same data all at the same time. before you leave the field you will have completed a model and if needed the ISO's for the data collected.

Model Organization – David Moody, Alliance Engineering

Large and small models require careful planning to make their development and use efficient. Many times models are used for different purposes from overall plant layouts to equipment details to subsystem drawings. This can be very complex if a good model organization is not developed and followed. In this course you will see one way of developing a good model organization plan and begin to see ways you can implement a good design for your organization.

2D Orthographic Drawing Generation – LAB – Josh Sampson, ICM

All projects require drawings to be developed to convey the design intent to those involved in manufacturing and construction. CADWorx has tools to help develop these drawings and to improve the time from model generation to drawing generation. In this course you will learn how to use these tools to speed the development of orthographic drawing generation. Tools like viewbox and sheetset manager, 2DREP and 2DHREP, the dimensioning and annotation tools.

3D Electrical Modeling Using CADWorx – Bill Vasey, ECE Solutions

Designed equipment or plants ultimately require electrical connections for power and data transfer. These connections are usually carried in either cable trays or conduit. In this course you will learn how to use the data set from ECE to model electrical components in your piping projects.

Advanced Modeling Techniques – LAB – Kyle Pope, ECAD

Using CADWorx Plant you can model any type of piping project you desire. Sometimes you need to look at alternative ways to develop your models using different tools and techniques inside CADWorx. In this course you will learn how to use some of these tools and techniques to enhance your productivity.

2009 CADWorx Plant – LAB - Sonia Delgadillo, ECAD

Many new enhancements have been added to CADWorx Plant. In this course you will see these enhancements in action and learn how to use them in your design projects.

Sheet Set Manager – LAB – Mark White, Mustang Engineering

AutoCAD has a very powerful but little used tool called sheetset manager. In this course you will learn how to use this tool and the power it will bring to your organization and your design work.

Creating Specifications and Data Files – LAB – Matt Breeden, ICM

CADWorx runs on specifications and specifications use data files. In this course you will learn how to develop specifications and how to add your own data files. You will also see how keyword files can be used to enhance the power of BOM generation.

Special End Types – LAB – Rod Abbott, Wardrop Engineering

Many times you may need to use a component that does not conform to the standard BW, SW, THD type. This is where special end type components come into play. These components are used to enhance the CADWorx library to include items like ductile iron, sanitary and other types of fittings. In this course you will learn how to use these special end type components and how to modify and add your own components based on these types.

User Shapes – LAB – Lee Smith, John Zink Company

Although CADWorx has an extensive library of components to select from sometimes there is something you need to show in your models that is not available. User shapes allow you to add a custom component with intelligence to the model. In this course you will learn how to build a user shape and how to add the intelligence needed for BOM and ISOGEN generation.

Steel

2009 CADWorx Steel Pro Plus – LAB –

CADWorx Steel Pro Plus is a new offering from COADE to enhance the design and production of structural steel models and drawings. In this course you will see this new program and see how it integrates with CADWorx Plant Pro. You will also see how easy it is to generate 2D stick drawings of your steel models.

DEALER COURSE

CADWorx Plant Dealer Led Instruction – Discussion

Tony Horn, Horn Drafting & CAD Center

Dealer led instruction classes on CADWorx Plant using the [COADE Certified Training Materials](#). This course is not open to attendees but will be presented to interested dealers.