

## CADWORX SYLLABUS

### Volume: I

#### General

- Tool bar
  - a. Accessing and Docking the Toolbars
  - b. Butt weld
  - c. Flanges
  - d. Flanged/ Butt weld Valves
  - e. Lined
  - f. Fiberglass
  - g. Sanitary
  - h. Victaulic
  - i. Threaded / Socket valves
  - j. Gaskets, etc,
  - k. Pipe ends
  - l. Restraints
  - m. Misc
  - n. Operators
  - o. Line Numbers
  
- Accessory
  - a. Plan to Elevation
  - b. Elevation to Plan
  - c. 2D Representation
  - d. Auto Isometric
  - e. Database
  - f. Exterior file

- g. C.G Generator
- h. Specifications
- i. Modify Library
- j. Line Numbers
- k. Setup
- l. Auto route
- m. Mode Convert

➤ Utility

- a. Current Settings
- b. Set Component
- c. Component Edit
- d. View
- e. Elevation
- f. Centerline
- g. Continuity
- h. Clash
- i. Break
- j. ISO Flag
- k. Insulation
- l. Insulation View Palette
- m. Dim Adjustment
- n. Line Isolate
- o. Line View Palette
- p. Layer Control
- q. Drawing Control
- r. MVSetup
- s. Zoom Lock
- t. Zoom Factor
- u. Pipe Support Modeler Palette

➤ Bill of Materials

- a. Setup
- b. Run

- c. Tag
- d. Export
- e. Import
- f. Delete BOM

➤ Graphics

- a. Introduction
- b. Section
- c. Detail
- d. Plan
- e. Elevation
- f. Instrument
- g. Arrow
- h. Misc
- i. Dots
- j. Weld
- k. ISO (Isometric Symbols)
- l. Prompts

## Volume: II

### Equipment Modeling

➤ Create Equipment

- a. Parametric Equipment Modeler
- b. Vessels Components
- c. Tanks
- d. Heat exchangers
- e. Pump Components
- f. Equipment Placement
- g. Bi Directional Links to Pressure Vessel Analysis

## Volume-III

### Pipe Works

- Pipe work modeling
  - a. 2D and 3D Piping
  - b. Specification modification and creation
  - c. Synchronized Project Database
  - d. CADWorx Line Numbers
  - e. Pipe Routing Tools
  - f. Adding Bolts and Welds
  - g. Custom components
  - h. Spec View Palette
  - i. Pipe Support Palette
  - j. Discontinuity View Palette
  - k. HVAC, including the HVAC Catalogue
  - l. Insulation View Palette
  - m. Line View Palette
  - n. Adding Top Works
  - o. Clash View Palette
  - p. Piping Centre of Gravity
  - q. CAESAR II Bi-Directional Interface
  - r. Automatic and Manual Isometrics
  - s. Creating Layouts
  - t. Custom BOMs
- Hangers & Supports
  - a. Creating of Supports in Pipe Rack
  - b. Modifying the Hangers & Supports in the Pipe Rack

## Volume: IV

### Structural

- a. Shapes
- b. Plate
- c. Cope
- d. Cut
- e. Miter Bend
- f. Union
- g. CG Generator
- h. Ladder
- i. Staircase
- j. Handrail
- k. Base Plate
- l. Auto Cope
- m. Edit
- n. Global Edit
- o. Steel - Global Edit All
- p. Set Component
- q. Generic Attachment - Steel
- r. Database
- s. Bill of Material - Steel
- t. Frame
- u. Existing
- v. User
- w. Loft
- x. Steel - Export/ Import

## Volume-V

### ISOgen

- a. Creating a custom style using the Project Manager
- b. Creating a custom style using I-Configure
- c. Review useful option switches and other ISOGEN files
- d. Generating PCFs for use with third party software

## Volume-VI

### HVAC / CableTray

- a. HVAC
- b. Edit
- c. Bill of Material - HVAC



**IT & ENGINEERING SERVICES**

**TRAINING**

**PROJECTS**

**PLACEMENTS**

**[www.engineers3d.com](http://www.engineers3d.com)**