

# Course Outline – Piping Level One

This course is designed to train users for Production Level CADWorx. These are the standard skills all CADWorx users should know in order to produce models, generate Isogen Isometrics, and work with clipped views in Paper Space.

## Lesson One (10 videos)

### Getting Started

- **Set up the Screen**
- **Saving the Workspace**
- **Placing Components – Proper Techniques and verifying good connectivity**
- **Dimensions and Graphics – Dimensioning in Model Space, CADWorx graphics**
- **Bill of Materials – Running a Cut Length BOM**
- **Component Annotation – Using Short Descriptions and Leaders**
- **Line Numbering – Setting up, Assigning, and Annotating**

## Lesson Two (6 videos)

### 3D – First Look

- **CADWorx UCS Tool Bar**
- **Modeling in Vertical – Adding O’lets, Nipples, Threaded Valves, and Plugs**
- **Adding Valve Tags**
- **Adding Valve Operators**
- **Isogen - Valve Operators in Isogen**

## Lesson Three (1 video)

### Isogen – First Use

- **Running Isogen**
- **Using Various Borders**
- **Isogen Options**

## Lesson Four (21 videos)

### 3D Modeling

- **Modeling Simplified**
- **3D Routing – using Routers and fitting make-up techniques**
- **Discontinuity View – verifying good connectivity**
- **Auto Elbows and Pipe**
- **Continuity checking and Isogen Troubleshooting**
- **Setting up Clipped Views using the View Box command**
- **Using Paper Space – Dimensioning and Annotating views in Paper Space**

