

## AutoCAD - Beyond the Basics

### Course Summary

#### Description

Participants are introduced to complex objects and editing methods as well as styles to manage text, dimensions and leaders. Additional text and dimension commands are presented. Techniques for using layouts and viewports to create multi-scale, multi-page designs are explored. Participants will create libraries of reusable shapes (blocks) and add changeable text (attributes) to the blocks. Experience with the topics covered in the *AutoCAD - The Basics* course is necessary as this workshop builds on these concepts.

Exercises for the workshop are drawn from a variety of disciplines, including part design, facility layout, architectural drafting and schematics. Participants for each workshop are surveyed to determine their areas of interest and when possible, exercises are tailored to match the needs of the workshop attendees.

#### Topics

- Creating Complex Shapes
- Leveraging Modify Command Options
- Creating Styles
- Advanced Layer Tools
- Formatting Designs using Layouts and Viewports
- Working with Blocks

#### Prerequisites

Experience with the topics covered in the *AutoCAD - The Basics* course is necessary as this workshop builds on these concepts.

#### Duration

Three days

## **AutoCAD - Beyond the Basics**

### **Course Outline**

#### **I. Creating Complex Shapes**

- A. Creating and Editing Polylines
- B. Working with Regions
- C. Drawing Ellipses

#### **II. Leveraging Modify Command Options**

- A. Using Quick Select
- B. Trim and Extend Command Options
- C. Offset Command Options
- D. Fillet and Chamfer Command Options

#### **III. Creating Styles**

- A. Creating Text Styles
- B. Creating Dimension Styles
- C. Creating Multileader Styles

#### **IV. Advanced Layer Tools**

- A. Creating Layer Filters
- B. Understanding Layer States
- C. Layer Walk

#### **V. Formatting Designs using Layouts and Viewports**

- A. Creating Layouts
- B. Setting up Viewports
- C. Controlling Layers in Viewports
- D. Working with Multiple Layouts
- E. Working with Page Setups
- F. Resolving Scale Issues

#### **VI. Working with Blocks**

- A. Understanding Blocks
- B. Making a Block
- C. Editing a Block
- D. Organizing a Design Center Library
- E. Creating Dynamic Blocks
- F. Making a Block with Attributes
- G. Making an Annotative Block
- H. Adding Blocks to a Tool Palette
- I. Using the Block Attribute Manager
- J. Exporting a Block