# AutoCAD – Beyond the Basics

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 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 in this two day course include:

## Advanced Editing

- Move, Copy, Mirror & Array Techniques
- Offsetting Multiple Objects
- Managing Layers for Efficient Editing
- Trimming, Breaking & Joining Objects

## Advanced Drawing Skills

- Creating and Editing Polylines
- Drawing Ellipses

## Managing Drawing Scales

- Understanding Annotative Concepts
- Creating Annotative Styles
- Creating Annotative Objects in Multiple Viewports
- Adding and Subtracting Scales
- Creating Multiple Scale Positions
- Synchronizing Multiple Scale Positions

## Advanced Text Techniques

- Creating Numbered, Lettered & Bulleted Notes
- Including Symbols in Text
- Creating Stacked Fractions
- Using Spell Check

## Advanced Dimensioning Techniques

- Formatting Dimensions
- Using Alternate Units
- Adding Tolerances to Dimensions

## Advanced Layout Techniques

- Creating Layouts
- Setting up Viewports
- Controlling Layers in Viewports
- Working with Multiple Layouts
- Working with Page Setups
- Using Multiple Scales
- Printing Multiple Layouts

## Creating Component Libraries

- Understanding Blocks
- Making a Block
- Editing a Block
- Organizing a Design Center Library
- Creating Dynamic Blocks
- Making a Block with Attributes
- Making an Annotative Block

Topics and duration may be modified by the instructor based on skill level and knowledge of the participants.