AutoCAD Mechanical Fundamentals (IGTAM)

Course Length:	2 days

This course is designed for the new AutoCAD® Mechanical user who want to become productive with AutoCAD Mechanical. It incorporates the features, commands, and techniques for creating and editing mechanical designs with AutoCAD Mechanical. Hands-on exercises throughout the course enable students to practice creating mechanical engineering production drawings. The primary objective of this courseware is to teach the student the basic commands necessary for professional 2D mechanical drawing, design, and drafting using AutoCAD Mechanical.

Prerequisites:

- Drafting, design, or engineering experience is required.
- Working knowledge of AutoCAD 2007.
- It is also recommended that you have a working knowledge of Microsoft® Windows® XP,
- Microsoft® Windows® 2000, or Windows NT® 4.0.

Day 1

Module 1: AutoCAD Mechanical Concepts
· Concepts
· Key Functionality
Module 2: User Interface
· Interacting with the User Interface
· Common Drawing Setup
Module 3: Mechanical Structure
· Structuring Data in Drawings
· Reusing and Editing Structured Data
· Structure and Other Tools
Module 4: Mechanical Layers and Layer Control
· Layers & Layer Control
Module 5: Tools for Creating Key Geometry
· Power Snaps
· Core Design Tools
· Centerlines
· Construction Lines
· Designing with Lines
· Adding Standard Feature Data for Holes and Slots
Module 6: Tools for Manipulating Geometry
· Editing Tools
· Power Commands
Module 7: Mechanical Part Generators
· Standard Parts
· Springs
· Chain/Belt
· Shaft Generator & Shaft Standard Parts

Day 2

Module 8: Creating Drawing Sheets
· Model Space Views in Layouts
· Title Blocks and Drawing Borders
· Creating Detail Views in Model Space
Module 9: Dimensioning and Annotating Your Drawings
· Creating Dimensions
· Manipulating Dimensions
· Annotation Symbols
· Revision Lists
Module 10: Bill of Materials, Parts Lists, and Balloons
· Bill of Materials
· Inserting Parts Lists
· Balloons
Module 11: Design Calculations
· Design Calculations
Module 12: Working Without Structure
· Turning Structure Off
· Layer Groups
· Part Information
· 2D Hide
· Library
Module 13: Mechanical Options For the CAD Manager
· AM: Standards
· AM: Structure
· AM: Drawing
· AM: Standard Parts
· AM: Shaft
· AM: Calcualtions & AM: Preferences