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AutoCAD 2010 Level I: Fundamentals Course Outline

Course Description: The AutoCAD Fundamentals course introduces students to the basic AutoCAD commands. It also familiarizes them with creating shapes, which is essential when working on 2D floor plans, as well as anything else that AutoCAD can be used to create.

Course Objective: This course will familiarize the student with AutoCAD, allowing them to move around and perform a multitude of tasks in the program.

Course Content

Chapter 1: Getting Started with AutoCAD

Starting AutoCAD
AutoCAD's User Interface and Commands
AutoCAD's Cartesian Workspace
Opening and Viewing an Existing Drawing File
Saving Your Work

Chapter 2: Basic Drawing & Editing Commands

Drawing Lines
Erasing Objects
Drawing Lines with Polar Tracking
Drawing Rectangles
Drawing Circles
Undo and Redo Actions

Chapter 3: Projects - Creating a Simple Drawing

Chapter 4: Drawing Precision in AutoCAD

Using Running Object Snaps
Using Object Snap Overrides
Polar Tracking at Angles
Object Snap Tracking

Chapter 5: Making Changes in Your Drawing

Selecting Objects for Editing
Moving and Copying Objects
Rotating Objects
Scaling Objects
Mirroring Objects
Editing with Grips

Chapter 6: Projects

Chapter 7: Organizing Your Drawing with Layers

Creating New Drawings With Templates
What are Layers?
Layer States
Changing an Object's Layer

Chapter 8: Advanced Object Types

Drawing Arcs
Drawing Polylines
Editing Polylines

Drawing Polygons

Drawing Ellipses

Chapter 9: Getting Information from Your Drawing

Working with Object Properties
Measuring Objects

Chapter 10: Projects

Chapter 11: Advanced Editing Commands

Trimming and Extending Objects
Stretching Objects
Creating Fillets and Chamfers
Offsetting Objects
Creating Arrays of Objects

Chapter 12: Inserting Blocks

What are Blocks?
Inserting Blocks and Dynamic Blocks
Inserting Blocks with DesignCenter

Chapter 13: Projects

Chapter 14: Setting Up a Layout

Printing Concepts
Working in Layouts

Copying Layouts

Creating Viewports

Guidelines for Layouts

Chapter 15: Printing Your Drawing

Printing Layouts

Printing from the Model Tab

Chapter 16: Projects

Chapter 17: Text

Working with Annotations
Adding Text in a Drawing
Formatting and Modifying Multiline Text

Chapter 18: Hatching

Hatching and Editing Hatches

Chapter 19: Adding Dimensions

Dimensioning Concepts
Adding Dimensions
Editing Dimensions
Adding Notes with Leaders to Your Drawing