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AutoCAD Level I: Fundamentals Course Outline

Course Description: The AutoCAD Fundamentals course introduces students on how to use basic AutoCAD commands and create shapes on the way to being able to work on 2D floor plans, as well as anything else that AutoCAD can be used to create.

Course Objective: This course will provide the student with a familiarity in AutoCAD that will allow them to move about the program and perform a multitude of tasks.

Course Content

Module 1: Creating a Simple Drawing

Section 1: Getting Started with AutoCAD

AutoCAD's Screen Layout

Command Prompts and the Keyboard

Using Your Pointing Device

Opening an Existing Drawing File

AutoCAD's Cartesian Workspace

Self Check: Getting Started with AutoCAD

Section 2: Basic Drawing & Editing Commands

Drawing Lines & Erasing Objects

Drawing Lines with Polar Tracking

Drawing Rectangles & Circles

Viewing Your Drawing

Undoing and Redoing Actions

Saving Your Work

Module 2: Making Your Drawings More Precise

Section 1: Drawing Precision in AutoCAD

Using Object Snap & Overrides

Polar Tracking & Object Tracking

Drawing with SNAP and GRID

Section 2: Making Changes in Your Drawing

Selecting Objects for Editing, Moving, Copying,

Rotating & Scaling

Module 3: Drawing Organization and info

Section 1: Working with Layers & Layer States

Creating New Drawings With Templates

Changing an Object's Layer

Section 2: Two More Object Types

Drawing Arcs & Polylines

Converting Polylines to Lines & Arcs

Converting Lines & Arcs to Polylines

Section 3: Getting Information Measuring

Distances & Areas

Information about Objects

Module 4: Creating More Complex Objects

Section 1: Advanced Editing Commands

Trim, Extend, Stretch, Fillet & Chamfer

Section 2: Duplication Commands

Offsetting & Mirroring Objects

Creating Arrays of Objects

Section 3: Inserting Blocks

What are Blocks?

Inserting Blocks from Tool Palettes

Inserting Blocks with INSERT

Module 5: Preparing to Print

Section 1: Setting Up a Layout

Printing Concepts

Working in and Creating a New Layout

Copying a Layout

Guidelines for Layouts

Section 2: Printing Your Drawing

PLOT Command & Plot Preview

Module 6: Annotating Your Drawing

Section 1: Text Adding, Formatting, and Editing Multiline Text

Section 2: Hatching & Editing the Hatch Pattern

Section 3: Adding Dimensions

Dimensioning Concepts

Adding Single Dimensions

Other Dimension Tools

Quick Dimension (Optional)

Adding Leaders & Editing Dimensions

Selecting a Dimension Style