

DTB-STU-101

Introduction to AutoCAD Course

Program Information

Intermediate AutoCAD: Level 1



Nature of the Course
Theory + Practical



Total Hours per Day
2 hours



Course Duration
1 Week

Course Booklet

Using AutoCAD software, students master the features and elements of computer-aided drafting. This course places an emphasis on learning the fundamental drawing and editing commands needed to create simple two-dimensional drawings. Topics include entering and using the drawing editor, setting up the drawing environment, constructing entities, editing a drawing, display control and zooming, creating dimensions, creating layers and assigning objects, drawing storage and retrieval, layer and line-type options, detailing, blocks creation and exporting blocks. This course requires the students to have a basic understanding of Windows and software

Completion Criteria

After fulfilling all of the following criteria, the student will be deemed to have finished the module:

- Has attended 90% of all classes held.
- Has received an average grade of 80% on all assignments
- Has received an average of 60% in all assessments.
- The tutor believes the student has grasped all of the concepts and is ready to go on to the next module.

Required Textbooks

- Bill Fane, "AutoCAD for Dummies", Wiley.
- Bill Fane, "AutoCAD Essentials", Wiley

Course Details

Day 1 : Introduction

- Introduction
 - User Interface and Workspace
 - Creating and saving drawings
 - Drawing Units
 - Pan and Zoom Tools
 - Model space and Layout space
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Day 2 : Creating Drawings

- LINE command
 - RECTANGLE command
 - CIRCLE command
 - POLYLINE command
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Day 3: Modifying And Manipulating Drawings

- Making Selection
 - Move And Copy Commands
 - Rotate And Scale Commands
 - Offset And Mirror Commands
 - Trim And Extend Commands
 - Fillet And Chamfer Commands
 - Rectangular And Polar Array
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Course Details

Day 4 : Dimensions And Text

- Creating Dimensions
 - Creating dimension style
 - Creating Single-line text and Multiline text
 - Creating Text style
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Day 5 : Layers And Blocks

- Creating Layers and assigning objects
 - Using Layer properties manager
 - Editing object properties
 - Creating and editing blocks
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Day 6 : Layout And Plotting

- Preparing Layout and adding title blocks
 - Viewports and scale
 - Plotting drawing
-

Day 7 : Revision And Lab Sessions

Learning Outcomes

- You will be familiar with the AutoCAD interface and able to use the command panel.
- Ability to design two-dimensional drawings.
- Ability to create Layers and Blocks and Prepare Layouts

Program Information

Intermediate AutoCAD: Level 2



Nature of the Course
Theory + Practical



Total Hours per Day
2 hours



Course Duration
5 days

Course Booklet

This course is appropriate for students who have a basic AutoCAD drawing skill and want to advance their careers, utilize AutoCAD in their current position, or are creative enthusiasts. Topics in this course include Precision Drawing, Object Properties, and Labelling and Annotating Architectural Plan.

Completion Criteria

After fulfilling all of the following criteria, the student will be deemed to have finished the module:

- Has attended 90% of all classes held.
- Has received an average grade of 80% on all assignments
- Has received an average of 60% in all assessments.
- The tutor believes the student has grasped all of the concepts and is ready to go on to the next module.

Required Textbooks

- Brian C. Benton and George Omura, "Mastering AutoCAD 2021", Sybex.

Course Details

Day 1 : Introduction Precision Drawing In Autocad

- Polar and Ortho mode
 - Dynamic Input
 - Object Snap
 - Object Snap Tracking
 - Editing with Grips
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Day 2 : Advanced Object Types

- Arcs
 - Ellipses
 - Polygons
 - Construction Line
 - Multiline
 - Tables
 - Multileader
 - Hatches
-

Day 3: Object Properties

- Modifying object properties
 - Line types, Line scale and Line weights
 - Match properties
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Course Details

Day 4 : Advanced Modify Commands

- Stretch Command
 - Break Command
 - Join Command
 - Align Command
 - Layon, Layoff and Layiso Command
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Day 5 : Creating A Simple Drawing

- Drawing an architectural plan of a house
 - Creating Sections and Elevations
 - Creating detail drawings
 - Labeling and annotating architectural plan
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Labs

Lab assignments will focus on the practice and mastery of contents covered in the lectures, and introduce critical and fundamental problem solving techniques to the students.

Learning Outcomes

- Improved precision in drawing in AutoCAD
- Ability to use advanced commands
- Ability to modify object properties

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