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Autodesk AutoCAD

Syllabus

 **CoderMask**[®]

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Phase I – AutoCAD Drafting(2D) Course

Getting familiar with AutoCAD

- AutoCAD introduction
- Interface, Navigation tools
- Mouse control
- Co-ordinate system
- Limits and Units
- Drawing template

Drawing creating and modification tools

- Lines, Circle, Arcs, Ellipses, Rectangle, Polygons, Polyline and Spline, Point, Construction line and Ray, Revision clouds
- Move, Copy, Rotate, Offset, Mirror, Trim and Extend, Erase, Explode, Overkill, Stretch, Break, Join, Fillet, Chamfer, Lengthen

Status bar option

- Grid and Snap, Polar and Ortho Mode, Dynamic input, Object Snap, Object Snap tracking, More Status-bar options

Advance drawing tools

- Rectangular Array, Polar Array, Path Array, Divide, and Measure, Vertices Functions, Align command, Utilities option, Isometric Drawing, Centerline and Center mark, Region and Boolean Operations

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- Rectangular Array, Polar Array, Path Array, Divide, and Measure, Vertices Functions, Align command, Utilities option
- Isometric Drawing, Centreline and Centre mark, Region and Boolean Operations

Drawing Properties

- Assigning Different Properties (Object colour, Line type, Line weight, Transparency), PR and CHPROP command, Viewports, Named Views

Hatch and Gradient

- Basic Hatch, Set-origin and Associative hatch, Advance hatch, Boundary and Wipeout, create gradient

Use of Layers

- Creating and assigning layers, layer property manager, Layer state, Layer Walk, Layer Filter, Layer-merge, Layer-delete, Quick access layer tool, Hiding and isolating objects

Dimensioning and Annotation

- Basic dimensions, Continue, Baseline and Ordinate, Smart dimension, Dimension Style, Dimension-override, adding Tolerances and Dual dimensioning, feature control frame
- Create Multileader, Multileader style

Text and Table

- Single-line text, Text style, Multiline Text, Table Creation and Formatting, table style, Field and formulas in table, Exporting and importing table to and from Excel

Blocks and Group

- Creating Blocks, insert command, Block editor, Redefining Blocks, Write Blocks, Global Blocks, Creating Groups and its use, Group manager, etc.

Attributes

- Define Attributes, Block with attribute, Edit Attribute, Attribute Manager, Attribute Data extraction

External References (X-Ref)

- Attaching External references, Editing and clipping, External references Palette, Attaching PDF and Image, etc.

Parametric Features

- Parametric drawing, Infer constraints, auto constraint, Geometric and dimensional constraints

Dynamic Blocks

- Converting simple Block to a Dynamic block, Different types of dynamic block, Dynamic block with constraints, Visibility Parameter, Block Table, etc.

Layout and Printing

- Paper Space and Layout, Page setup, Layout Viewport, Scale in viewport, Inserting Title Block, plotting from Layout, Plotting from Model Space, etc.

Advance Tools and Commands

- Saving a drawing templet, creating a new workspace, AutoCAD Design Center, Tool palette, Quick select tool, etc.

Drafting Project

Phase II – AutoCAD Modelling(3D) Course

3D workspace

- Switch workspace to 3D Basic or 3D modelling, 3D navigation, Viewport controls, View controls, View Cube, etc. 3D Gizmo, 3D object snap

Solid Modelling

- Creating Primitive Solids, Non-Primitive solids, Extrusion, Revolve, Sweep, Loft, Press-Pull, etc.

Solid Editing

- Union, Subtract, Intersect, Fillet-edge, Chamfer-edge, Taper face, extrude face, Shell, Slice, thicken, interfere, extract edge, imprint, offset edge, Section plane, etc.

Other Modelling Tools

- Surface Modelling, Surface editing, Mesh Modelling, Smooth-option Filtered Selection

Visualization

- Material Browser, Assigning Material, Visual style controls, Creating Light and Sun, Camera

Rendering

- Perspective and parallel view, image size and quality, etc.

3D Modelling Project

Phase III

- Project Submission
- Certification

