

# WINTER TRAINING 2018-19



# AutoCAD

## AutoCAD Essentials

### TAKING THE AUTOCAD TOUR

- Starting AutoCAD
- Drawing Area
- Command Window
- Status Bar
- Starting New Drawing
- Dynamic Input Mode
- Creating And Managing Workspace

### GETTING STARTED WITH AUTOCAD

- Coordinate Systems
- Drawing Lines & Circles
- Erasing Object
- Canceling & Undoing A Command
- Inputting Data
- Creating Basic Objects
- Using Object Snaps
- Using Polar Tracking And Polar Snap
- Using Object Snap Tracking
- Working With Units

### MODIFYING OBJECTS

- Selecting Objects In The Drawing
- Changing An Object's Position
- Creating New Objects From Existing Objects
- Changing The Angle Of An Object's Position
- Creating A Mirror Image Of Existing Objects
- Creating Object Patterns
- Changing An Object's Size

## AutoCAD Intermediate training Course

### DRAWING OBJECTS

- Creating And Editing Multilines
- Creating Revision Clouds
- Regions

### CREATING ADDITIONAL

- Drawing Objects
- Working With Polylines
- Creating Splines
- Creating Ellipses
- Using Tables

### ALTERING OBJECTS

- Trimming And Extending
- Objects To Defined Boundaries
- Creating Parallel And Offset Geometry
- Joining Objects
- Breaking An Object Into Two Objects
- Applying A Radius Corner To Two Objects
- Creating An Angled Corner Between Two Objects
- Changing Part Of An Object's Shape

### HATCHING & GRADIENTS

- Use Hatching/Gradients
- Create Annotative Hatch/Gradients
- Editing Hatch/Gradients Patterns
- Editing Hatch/Gradients Boundary
- Other Features Of Hatching/Gradients

### DRAWING ORGANIZATION AND INQUIRY COMMANDS

- Using Layers
- Changing Object's Properties
- Matching Object's Properties
- Using The Properties Palette
- Using Linetypes
- Using Inquiry Commands

## AutoCAD 3D Training Course

### INTRODUCTION TO 3D

- Introduction to 3D Modeling
- Creating & Managing the Workspace
- Navigating in Working Environment
- Types of 3D Models
- Working In 3D
- 3D Coordinate System
- Modifying Visual Styles of Solid

## MANIPULATING OBJECTS AND DATA

- Selecting Objects With Quick Select
- Purging Objects
- Working With Point Objects
- Dividing And Measuring Objects

## DIMENSIONING

- Introduction To Dimensioning
- Basic Dimensioning

## ISOMETRIC DRAWINGS

- Changing The Workspace For Isometric Drawings
- Rules Of Isometric Drawings
- Working In Isometric Drawings
- Isometric Projections
- Isometric Axes & Planes
- Setting The Isometric Grid & Snap

## AutoCAD Advanced

### WORKING WITH REUSABLE CONTENT

- Creating Blocks
- Working With Blocks
- Saving A Block For Further Use
- Editing/Modifying Of Saved Block
- Reusing Saved Blocks

### DESIGN CENTRE & TOOL-PALLETS

- Introduction To Design Centre & Tool Pallette
- Using Predefined Blocks
- Editing The Predefined Blocks In Design Centre & Tool Pallette

### CREATING TEXT & TABLES

- Creating Simple & Multiline Text
- Editing Text
- Changing Text Style
- Inserting Tables
- Modifying Tables

## CREATING 3D DESIGNS

- Inputting Data
- Introduction to Free-Form Designs
- Creating Wireframes & Surface Designs
- Creating 3D-Volumetric Designs
- Working with Pre-defined Solid Primitives
- Manipulating/Modifying 3D Profiles & Models
- Creating Composite models
- Filleting & Chamfering Solid models
- Using Booleans on Solid Models
- Use of Productivity Tools

## RENDERING

- Concept of Rendering
- Selecting & attaching Materials
- Creating New Materials

## LAYER MANAGEMENT AND BEST PRACTICES

- Working With Layer Filters
- Using The Layer States Manager
- Using Layer Standards

## DIMENSIONING AND ANNOTATION

- Introduction To Annotation Scaling
- Controlling Annotation Scale
- Using Multileaders
- Dimensioning
- Creating Center Marks
- Creating Ordinate Dimensions
- Creating Geometric
- Dimensions And Tolerances
- Working With Dimension
- Substyles And Overrides