



## **AutoCad Training Syllabus**

Project Development Training boasts dedication to excellence in the life-long learning and development services it provides for civil engineers closely aligning its programs with current industry requirements and the latest government initiatives. All of our training courses are peer reviewed and delivered by Chartered Engineers and industry specialists. Training is undertaken on the job and involves design and planning-focused work within the office, in addition to site-based activities. AutoCad Training includes following modules:

**TRAINING DURATION**      30 Hrs / 3 Weeks / Customized

**TRAINING CHARGE**      8,000+ Service Tax

### **Details of AutoCad Training Modules**

#### **1. AutoCAD Civil D User Interface**

- Navigating the AutoCAD Civil D User Interface
- Navigating the AutoCAD Civil D Interface
- Project Overview

#### **2. Data Collection and Base Map Preparation**

- Importing GIS Data
- Importing ESRI Shapefiles
- Controlling the Display of Polygons
- Viewing GIS Attributes in AutoCAD
- Inserting a Registered Image (Rectified Aerial Photography)
- Adding the Project Area
- Using Queries to Manage and Share Data
- Attaching Source Drawings
- Defining a Query
- Saving Changes Back To the Source Drawings
- Defining a Compound Query



### 3. Preliminary Layout

- Creating a Preliminary Existing Ground Surface
- Creating a Surface
- Adding Surface Data
- Changing the Surface Style to Control Display
- Managing Drawing Settings
- Using the Object Viewer
- Creating a Preliminary Alignment
- Drafting the Preliminary Alignment Using Transparent Commands
- Creating Points from an Alignment
- Establishing the Point Settings
- Setting Points on an Alignment
- Creating a Point Group
- Creating a Point Import/Export Format
- Exporting Points to an ASCII File

### 4. Creating a Survey Plan

- Importing Survey Points
- Creating a Description Key Set
- Importing Points from an ASCII File
- Confirming the Description Keys Worked Properly
- Working with Point Groups
- Locking Points and Group Properties
- Creating a Point Group for Property Corners
- Creating a Point Group for Center Line Points
- Creating a Point Group for Breakline Points
- Creating a Point Group for Tree Points
- Controlling Point Display
- Creating Point Styles
- Creating Point Label Styles

© DP Project Development Pvt. Ltd.

Address- 572, Sector-4, Vaishali, Ghaziabad, Uttar Pradesh-201010 (INDIA)

Phone:-01204375244, +91-8586890684

Website: [www.projectdevelopment.co.in](http://www.projectdevelopment.co.in), E-mail: info@projectdevelopment.co.in



- Controlling Point Display with Point Groups
- Controlling the Dragged State
- Controlling Point Label Size in Model Space
- Controlling Point Group Display Order
- Drawing Linework Using Transparent Commands
- Drawing Lines by Point Number
- Drawing Lines by a Range of Point Numbers
- Drawing Lines by Point Object
- Working with Parcels
- Defining a Parcel from Existing Geometry
- Creating a Parcel Area Report
- Creating a Parcel Legal Description Report
- Labeling Linework
- Labeling Parcel Lines
- Working with Parcel Segment Labels
- Creating a Line Tag Style
- Tagging Parcel Lines
- Creating a Line Table
- Creating a Parcel Area Table
- Labeling AutoCAD Objects

## **5. Building a Survey Quality Surface**

- Building Surfaces from Survey Data
- Creating a Point Group to Be Used As Surface Data
- Creating the Survey Surface
- Adding Point Group Data to a Surface
- Creating Breaklines by Point Number
- Creating Breaklines by Point Selection
- Adding Breaklines to the Surface
- Viewing the Surface



- Editing Surfaces
- Editing Point Data
- Editing Breaklines
- Deleting Lines
- Pasting Surfaces
- Surface Analysis
- Displaying Slope Arrows
- Elevation Banding
- Slope Analysis
- Working with Contours
- Displaying a Surface as Contours
- Controlling Contour Display
- Labeling Contours
- Moving Contour Labels
- Deleting Contour Labels
- Labeling Only the Major Contours
- Editing Contour Labels
- Controlling Surface Display for Performance

## **6. Working with Alignments**

- Creating Alignments
- Default Curve Settings
- Creating Tangents with Curves
- Editing Alignments
- Editing Alignments Graphically
- Editing Alignments in Grid View
- Working with Alignment Labels
- Working with Alignment Station Labels
- Changing the Stationing of an Alignment
- Labeling Station and Offset Values



- Creating Polyline Offsets of an Alignment
- Creating Offset Alignments
- Laying Out Parcels
- Merging Parcels
- Creating Parcels Manually
- Creating Parcels with the Slide Line Tool
- Creating Parcels with the Slide Line Tool Automatically
- Editing Parcels
- Deleting Parcels
- Renumbering Parcels
- Working With Parcel Styles and Labels
- Controlling Parcel Display
- Creating Parcel Styles
- Creating Parcel Area Label Styles
- Changing the Styles of Multiple Parcels

## **7. Working with Profiles**

- Creating Existing Ground Profiles
- Sampling and Drawing the Profile
- Changing the Profile View Style
- Creating a Profile View Style
- Creating Additional Profile Views
- Creating Finished Ground Profiles
- Constructing the Finished Ground Centerline
- Editing the Profile Graphically
- Editing the Profile in Grid View
- Working with Profile Labels
- Adding Profile Labels
- Working with Profile View Bands
- Adding Profile View Bands



## 8. Corridor Modeling

- Working with Assemblies
- Subassembly Catalogs
- Creating an Assembly
- Working with Corridors
- Creating a Corridor
- Editing a Corridor
- Creating Corridor Surfaces
- Viewing and Editing Corridor Sections
- Exporting Corridor Points
- Working with Sections
- Creating Sample Lines
- Creating a Section Group Plot Style
- Creating Section Views
- Creating Section Sheets
- Volume Calculations
- Creating a Mass Haul Diagram
- Editing a Corridor to Update Surfaces, Sections, and Volumes
- Creating a Surface Showing Final Site Conditions

## 9. Pipes

- Working with Pipe Networks in Plan
- Laying Out a Pipe Network
- Editing a Pipe Network in Plan
- Working with Pipe Networks in Profile
- Adding a Pipe Network to a Profile
- Editing a Pipe Network in Profile
- Labeling a Pipe Network in Profile
- Working with Pressure Networks in Plan
- Laying Out a Pressure Network
- Adding a Lateral to a Pressure Network

© DP Project Development Pvt. Ltd.

Address- 572, Sector-4, Vaishali, Ghaziabad, Uttar Pradesh-201010 (INDIA)

Phone:-01204375244, +91-8586890684

Website: [www.projectdevelopment.co.in](http://www.projectdevelopment.co.in), E-mail: [info@projectdevelopment.co.in](mailto:info@projectdevelopment.co.in)



- Working with Pressure Networks in Profile
- Creating a Profile View with a Pressure Network
- Editing a Pressure Network in Profile

## 10. GRADING

- Working with Grading Groups
- Creating a Grading Group
- Creating a Grading Object
- Creating a Grading Infill
- Reviewing Grading Group Properties
- Calculating Stage Storage
- Lesson: Volume Calculations
- Creating a Grid Volume Surface
- Creating a TIN Volume Surface
- Displaying Cut and Fill with Surface Styles
- Creating a Legend for Cut and Fill Depths

## 11. DATA SHORTCUTS

- Lesson: Sharing Project Data with Data Shortcuts
- Setting the Working Folder
- Creating a Data Shortcut Project
- Creating Data Shortcuts
- Creating Data Shortcut References

## PRACTICAL:-

- Understand and work with Object Styles.
- Create, manage and apply Label Styles.
- Import and manage Points, and work with Point Groups.
- Create and edit Alignments.
- Define Parcels.
- Create and edit Profiles and Profile Views.



- Create Corridors and extract information from them.
- Sample Sections and plot Section Views.
- Import and leverage GIS Data in your Civil D projects.
- Use Queries to manage and share data.
- Layout Pipe Networks and edit them in plan and profile.
- Work with the Grading tools.
- Create reports for Civil D objects.
- Calculate 2D, 3D area on the field / site
- Calculate Volumes.
- Share project data with Data Shortcuts.
- Preparation of site plan and service plans as per building rules.
- Building Services (for single and two storied buildings only).
- Closed/Unclosed traverse and area calculations.

**TRAINING SCHEDULE** - Please contact us for latest training schedule

## **TRAINING MODE**

We give flexible learning options to trainees

- Instructor Lead (REGULAR / ONLINE / WEEK-END / PART-TIME / COMBINED-FLEXIBLE)
- INSTRUCTOR LEAD LIVE ONLINE TRAINING MODE - You can join the training from any part of world

## **CONTACT DETAILS**

DP Project Development Pvt. Ltd.

**Address** 572, Sec-4, Vaishali, Ghaziabad, Uttar Pradesh-201010, INDIA

**Mobile** +91-8586890684, +91-120-4375244

**Email** [training@projectdevelopment.co.in](mailto:training@projectdevelopment.co.in)

**Website** <http://www.projectdevelopment.co.in>

**Skype** dp.trainer