

AutoCAD® Civil 3D® 2010 – Essential

Course length: 3 days

Pre-requisites:

Basic knowledge of AutoCAD, Autodesk Land Desktop and/or Autodesk Civil Design would be an advantage but not a requirement.

Topics covered:

- **Software**
 - Terms and Basis knowledge.
 - Installation and system requirements.
 - Useful documentations.
- **Work Environment**
 - Quick commands, roll down menus, tool bars, Ribbon.
 - Prospector and settings in Toolspace.
 - Personalize your environment with Workspace Settings.
 - 3D object visualization.
 - Panorama, information and editing box.
 - General settings of drawing.
 - General settings of labels.
 - Transfer settings between drawings.
 - Transparent commands
- **Points**
 - Manage and edit general settings.
 - Create and edit points.
 - Usage of external files.
 - Manage points with Point Group.
- **Surface Modeling**
 - Base settings and creation of surfaces.
 - Define surface from different data sources.
 - Create and manage surface style.
 - Manage large surface.
 - Edit surface geometry.
 - Calculate differential volumes.
 - Manage surface analysis.
 - Masks, limits and labels.
- **Grading (Landscape)**
 - Feature Lines.
 - Base settings of grading objects.
 - Create grading objects.
 - Move and edit.
 - Manage and calculate volumes.

- **Road Design**
 - Create and edit horizontal alignment.
 - Create profile view and existing ground profile.
 - Create and edit profile by layout.
 - Use design criteria sets.
 - Manage alignment and profile labels.

- **Corridor Modeling**
 - Understanding sub-assemblies.
 - Create and edit assemblies.
 - Create and edit simple 3D corridor project.
 - Overview of complex corridor (Enlargement, intersections).
 - Create surfaces on 3D corridor.

- **Sections and Materials**
 - Create and edit sections.
 - Create and edit section views.
 - Calculate volume by sections.
 - Overview of material management.
 - Insert volume report in drawing.

- **Piping**
 - Base settings.
 - Overview of Part Builder.
 - Create a network part list.
 - Create pipe network in plan and profile.
 - Manage labels in plan and profile.
 - Overview of Hydraflow extensions.

- **Survey**
 - Base settings of survey.
 - Create survey network.
 - Import and update survey data.
 - Create surfaces from survey.
 - Overview of analysis commands.

- **Data management**
 - Use of Data Shortcuts.
 - Produce data reports.
 - Use plan production tools.