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Certification Centre

Infrastructure training courses



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REVIT<sup>®</sup> MEP 2014



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2014

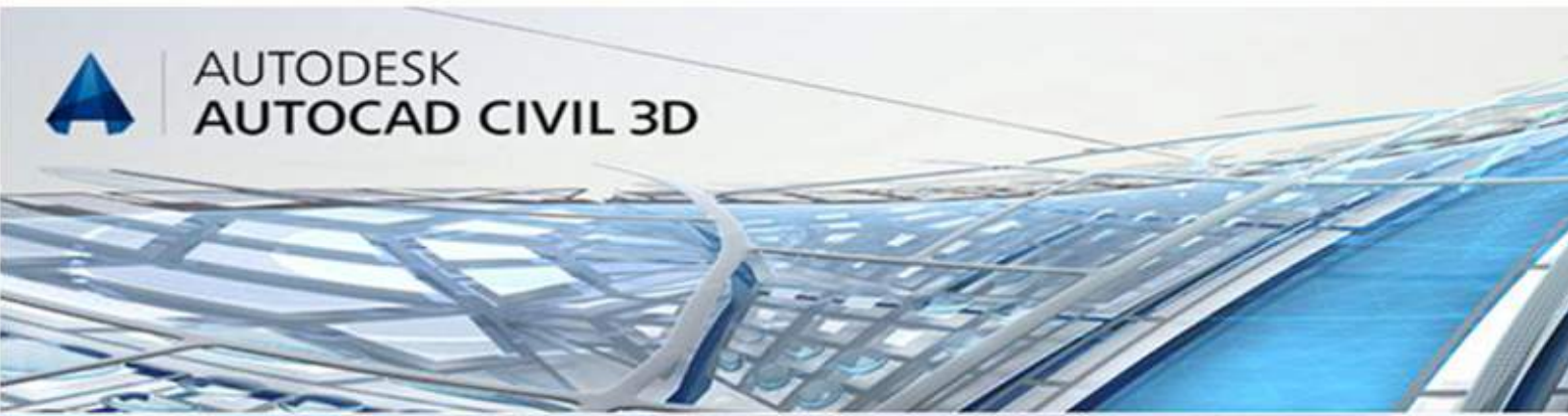


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AUTOCAD<sup>®</sup> ELECTRICAL  
2014



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AUTOCAD<sup>®</sup> INVENTOR LT<sup>®</sup>  
SUITE 2014





## Highway design technical course

- Course outline:

Highways Design Classification

Design speed

Running speed

Average spot speed

Highway Capacity & Level of Service

Stopping Sight Distance

Horizontal curves

Vertical curves

Super elevation

Transition curves

Curve widening

Grades

Frontage Roads

Cross sections

Side Slope

Medians

Roundabouts and intersections



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## AutoCAD® Design suite training package:

### 1. AutoCAD® 2D course

#### Who should attend ?

Autocad drafters , Engineers & Students .

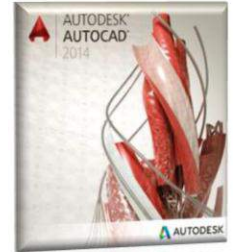
#### Course Objectives :

The objective of AutoCAD 2D course is to enable students to create a 2D drawing in the AutoCAD software. the AutoCAD software is one of the most sophisticated computer applications that you are likely to encounter. Therefore learning to use it can be challenging.

AutoCAD 2D course covers the core topics for working with the AutoCAD software. The teaching strategy is to start with a few basic tools that enable the student to create and edit a simple drawing, and then continue to develop those tools. More advanced tools are also introduced throughout the training Course .

#### Course outline:

1. Getting Started
2. 2D Drawing Basics
3. Drafting Settings
4. Display Control
5. Managing Layers
6. Object Properties
7. Inquiry Tools
8. Annotation Objects
9. Modify Objects
10. Dimensioning
11. Blocks and Attributes
12. Print and Plot



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AUTOCAD CIVIL 3D

## AutoCAD® Civil 3D®

AutoCAD® Civil 3D® software, part of Autodesk® Infrastructure Design Suite, is the Building Information Modeling (BIM) solution for civil engineering design and documentation. Civil 3D is built for civil engineers, drafters, designers, and technicians working on transportation, and development, and water projects. Stay coordinated and explore design options, analyze project performance, and deliver more consistent, higher-quality documentation—all within a familiar AutoCAD® software environment.



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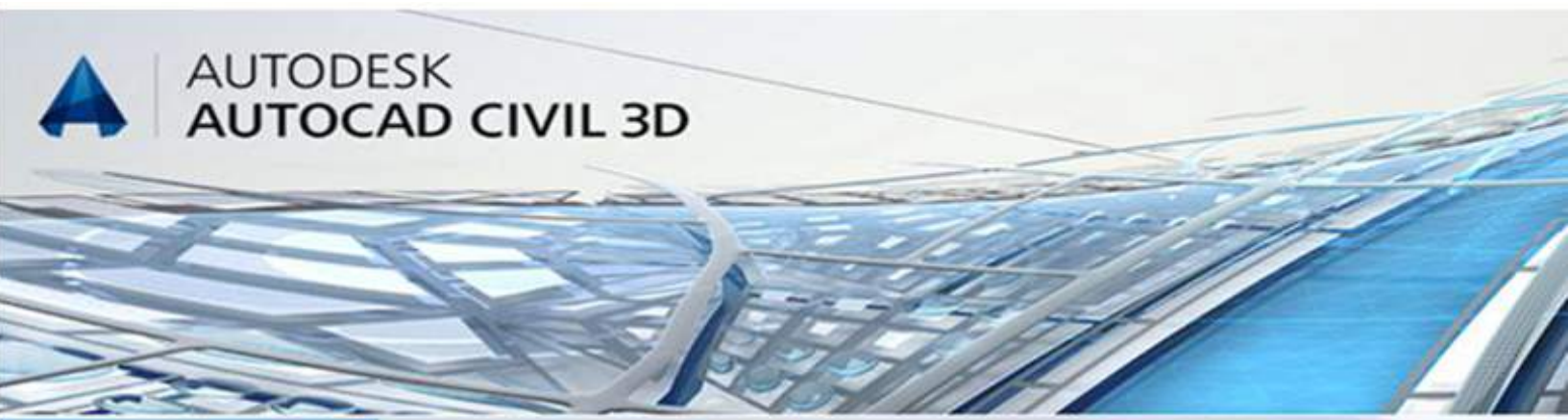
## Autocad Civil 3D® Training course

- Course Objectives :
  - Importing all survey data in all forms
  - Performing all required site analysis depending on our collected survey data
  - Performing base maps for site existing features such as ( existing roads , drains , ditches , utilities ) automatically
  - Perform DTM analysis
  - Perform contour line maps
  - Perform grid leveling maps automatically
  - Importing and exporting to Google earth
  - Create all types of grading and calculating its quantities of cut & fill
  - Performing all surface analysis to figure out the following ( slopes , water directions , surface directions ,....etc)
  - Professional Design of road alignments .
  - Professional Design of road profiles .
  - Professional Design of road cross-section .
  - Corridor modeling .
  - Intersections and interchanges Design .
  - Tunnels Design .
  - Roundabouts Design .
  - Parking areas Design .
  - Super-elevation tools .
  - Professional design of transition regions .
  - Roadway widening Design .
  - Detailed Roadway quantities for (pavement , base , sub-base, sub-grade, curbs ,.....etc).
  - Output different types of reports for all roadway features .





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AUTOCAD CIVIL 3D

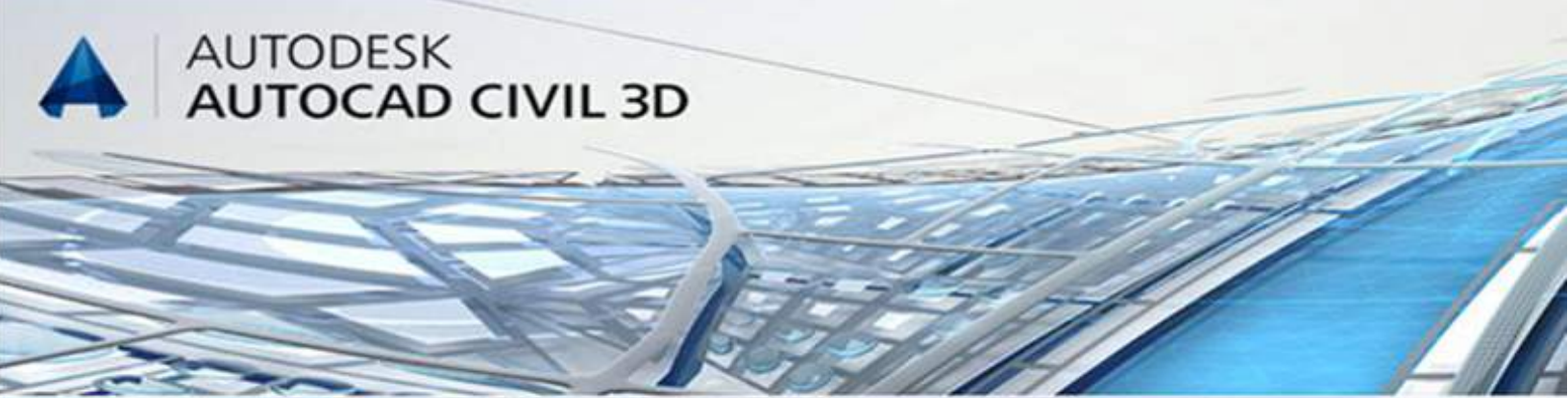


- Super-elevation tools .
- Professional design of transition regions .
- Roadway widening Design .
- Detailed Roadway quantities for (pavement , base , sub-base, sub-grade, curbs ,.....etc).
- Output different types of reports for all roadway features .



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## Earth works Training course

- Course Objectives :
  - Introduction to earth works
  - Calculating cut and fill quantities
  - Using cut and fill methods as per MOT
  - Exporting cut and fill quantities



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