



Autodesk Advance Concrete

Training details

DESCRIPTION

Advance Concrete software for concrete design and detailing is built on the AutoCAD platform. Model more quickly and accurately, and generate construction drawings and deliverables. Advance Concrete is interoperable with Revit software for a connected Building Information Modeling workflow.

OBJECTIVES:

The course covers the following areas:

- Introduction to Reinforcement Concrete Design
- User Interface
- Using parametric Structural Elements
- Creating complex Rebar arrangements
- Creating drawing views
- Placing links and drawing bars
- Reinforcing slabs
- Working with Meshes
- RC schedules and export to MS Excel
- Printouts
- Drawing Generation

TRAINING STRUCTURE:

Autodesk Advance Concrete

6 class x 2.5 hours = 15 hours

COURSE TEXTBOOKS AND OTHER READING MATERIALS

We recommend the following resources:

Web Resources:

- [Advance Concrete Overview](#)
- [Advance Concrete Help](#)

PREREQUISITES:

- Basic knowledge and skills about using computers.
- Structure background is recommended

COURSE GRADING:

Attendance 40% Assignments (workshop + 2 projects)

60% To pass the course and receive both Autodesk certificate & CAD MASTERS certificate you should:

- Attend at least 80% of course hours.
- Score more than 70% as a total score.

ADVANCE CONCRETE DETAILING – COURSE OUTLINE

This course including the following:

Introduction

- **BIM**
 - What is BIM
 - Differences with CAD
 - Benefits of BIM
- **Program interface**
 - Advance Concrete taps and panels.
 - Switching between main functions of Advance Concrete.

Reinforcement

- **Automatic reinforcement**
 - Creating automatic reinforcement for structural elements (beam, columns.....).
- **Manual reinforcement**
 - Creating manual reinforcement for structural elements (beams, columns, walls, foundations, slaps and domes) and any other structural elements.
 - Modification in reinforcement details and description.
 - Creating and modifying bars tables.
 - Creating layouts for printing.
- **Dynamic reinforcement**
 - Creating a parametrical dynamic for beams.
 - Creating a parametrical dynamic for Columns.

Form work

- **Creating a 3D model**
 - Creating building elements (Levels and grids).
 - Creating structural elements (beams, columns, slab, stairs and footings).
 - Exporting from Revit to Advance concrete.
- **Form work shop drawing**
 - Dimensions and Description of elements.
 - Modifying description.
 - Creating layouts.
 - Printing.