

## RC Design Diploma (Etabs – SAP - SAFE)

### Course details

SAP2000<sup>®</sup>

ETABS<sup>®</sup>

SAFE

### Description

It is a diploma for practical application on concrete works where a full residential building is designed with 12 floors and one with 20 floors. It is very important for anyone who will apply for graduation projects "concrete or foundations"

Engineering drawing on AutoCAD and executive drawing

- SAP 2000 for Structural Analysis
- CSI Safe concrete design with slabs and piles
- CSI Etabs for building analysis and design

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### Course structure:

Course name                  60 hour

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### Resourcing, text books and reading material:

We recommend the following resources:

- Eng. Ahmed Mohrame Rc. design diploma book
- Dr. Mahmoud Elkateb modeling notes

### Web resources:

- YouTube / channel / Computers and structures
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### Prerequisites:

- Knowledge and skills about using Eng. computers software (AutoCAD – SAP – Excel)
  - Civil engineering background is recommended (pass 3<sup>rd</sup> year)
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### Certificates:

- Certificate from CAD MASTERS
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### Grading:

Attendance                                  40%

Assignments                                  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



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www.cadmasters.org



**Course Objectives:**

1. Recognize design engineer job description
2. How to start a general construction project
3. Read architecture paintings
4. Starting putting structure system and recognize the suitable one
5. Ability to model the building for different programs (Etabs – Safe – SAP)
6. Show and export straining actions from analysis programs
7. Design concepts for all structural elements according to ECP 203 2018
8. Produce all design drawing sheets calculation sheet



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