

Electrical Distribution Course

Pre-request: electricity Principals

Course duration: 40 Hours

Course Content:

1- Introduction and AutoCAD 1 lec

A short Description about the steps of the projects and the coordination between different engineering Departments. Introduction about CAD Electrical and some important commands

2- Lighting Distribution 2 lecs

Types of lamps, luminaries. How to select lighting schemes. Manual calculations and Dialux calculations

3- General Power Distribution. 1 lec

Designing sockets and power sockets according to the Egyptian Electrical Code

4- Circuit Breaker selection and Cable Sizing 1 lec

Derating factors of Cables , Cables catalogues, Selection and Sizing of Circuit Breakers

5- Designing Load schedules for Electrical Panel Boards. 1 lec

Types of panels, sizing and schedule of electrical panels including excel sheets

6- Voltage Drop Calculations. 1 lec

Manual calculations of Voltage drop of loads according to the Egyptian Code

7- Short Circuit Calculations 1 lec

Manual calculations of short Circuit of loads according to the Egyptian Code

8 - Generator and U.P.S Selection. 1 lec

Types of Generators and UPS how to support different types of loads “real Examples”

9- Transformer Selection. 1 lec

Theory of operation, Types of transformers and selections

10- B.O.Q of the project 1 lec

Bill of quantities of different elements of the projects and vendor lists

11- Intro to Revit Electrical 2 Lec

Hint we can support a real sites visits to the distinguished students according to their evaluations during the course