

Panel Builder Course

Course Objectives

- Provide trainees with a wide exposure to one of the highly need engineers in the market "Panel Builders".
- Explore the description, requirements, and skills of the switch gears manufacturers.
- How to design Switch gears and the different types knowing the features of the MV and LV products.

Course Description

- Upon completion of the course, trainee will be able to design MV and LV panels
- Capability of passing the panel builders technical interviews.
- Control and Protection Panels functions.
- Study the MCC configurations.

Training Structure

8 Class x 2.5 hours = 20 hours

References for the trainee to prepare himself to the course

<https://www.facebook.com/Eduvate-1311710185651473/>

Prerequisites

- Basic knowledge and skills about using AutoCAD
- Electrical power system protection and control background

Course Grading

- Attendance 25%
- Ethics 15%
- Assignments Submission 30%
- Technical Project /Assignments 35%



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Alex: Mostafa kamel st., Smoha
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Course Outlines

1. What is switch gear
2. Purpose of switch gear
3. Switch gear types
4. Separation of Form types (Form is 1,2,3,4)
5. Distributor
6. RMUs types AIS or GIS
7. ACB , MCCB , and MCB
8. Selectivity and cascading effect on LV
9. MV CB SF6 and Vacuum Overview
10. Internal Arc classification
11. Videos and photos for some products to make people realize what we are explaining
12. Brief about the tendering , management and the factory project
13. Brief about the Design process in separate as this takes a specific focus from the design office and shall be with zero mistakes
14. MCC Panels Configuration.



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