Smart Systems Course

Course Objectives

To spread and qualifying the trainees to understand the aspects of the smart cities and new distribution systems, The trainees will be capable to select the smart products, the unique/suitable smart system compatible with the electrical distribution systems.

Course Description

The smart system course is concerned with the smart cities aspects, concepts, integration between all the smart utilities. Design of the smart panel board, selection and specification of smart circuit breakers, protective relays, etc.

Design of KNX system to control lighting, curtains, etc. as well as the integration with BMS system.

Training Structure

10 Class x 2.5 hours = 25 hours

References for the trainee to prepare himself to the course

- https://www.se.com/us/en/work/products/explore/smart-systems-asset-management/
- https://www.facebook.com/Eduvate-1311710185651473/

Prerequisites

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

Course Grading

- Attendance 25%
- Ethics 15%
- Assignments Submission 30%
- Assignments 35%

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Alex: Mostafa kamel st., Smoha
Kuwait: Mubarak Al kabier., Sabah Al Salem.

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Course Outlines

1. Introduction

2. Automation System

3. Communication Protocols and wirings

4. KNX system

5. Smart Panels

6. Smart Distribution Systems

7. Smart Cities Concepts (For MV networks)

8. New Administrative Capital Smart regulations

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