

Professional Training Course :

Design, Construction, Inspection and Operation of Electrical Panels (LV&MV)

Achievements:

- ❖ Receive a suite of software, articles, pictures and video clips, standards and tables required in the electrical power industry (over 12 gigabytes of information) and specialized electrical database
- ❖ Fully functional training Everything needed to design, manufacture, inspect and operate LV & MV electrical panels.
- ❖ Training on how to participate in tenders, project management, electrical design, design and manufacturing, completing checklists and testing and delivery.
- ❖ Training on work with relevant software
- ❖ Complete a panel project

course content :

- Disaster-caused losses, Incident-escalating factors in the electricity industry.
- Safety concepts and terminology and power system.
- Specifications of some individual protection equipment in electricity.
- How does flow affect the body.
- Electric shock and dangers, electric arc and Earthing.
- Major causes of electric shock, electrical shock absorber equipment.
- Comparison of AC, DC, Statistical Review, Safety measures to deal with electrical equipment.
- Protective regulations for electrical installations and workshops, implementation of the preparation of a safety checklist in the course, the broadcast of informative video clips and group discussion, the distribution of non-observance of safety images and their analysis.
- Electrical panel and its role in the industry.
- Classification of signs in terms of: user, structure, location, mobility, static, voltage level.
- Introduction of Electrical Panels Standards.
- Different parts of the panel: busbar compartment, casing, LV enclosure, key compartment.
- Participation in panel offers: documentation, technical review, single line, brand, IP, atmospheric conditions, installation conditions, color, dimensions, protection, offer submission, implementation.
- Circuit Board, Power Circuit.
- Measures, markers, keys and its types (ACB, MCCB, MCB, SF6, vacuum, oily).
- Disconnect switch.
- Transformer, relays, capacitors, instrumentation equipment, definitions, insulating surfaces, reactors, block testing.
- Busbar, fittings, cable, body, interlock, duct, winding, bend.

- Finger, Springs, Charging and Discharging, Key Chain.
- Color.
- Familiarity with the assembly of LV and MV electrical panel.
- Capacitor.
- Metalworker's boards.
- Sivacon panels.
- Types of protection, relay, error, IP
- Ansyncod.
- Heatshring and insulating plates.
- Earth system.
- Test (Type & routine).
- Review and checklist.
- Packaging and shipping.
- Map design, logic, single-line and multi-line maps.
- Laying the door, chassis layout, manufacturing process and assembly.
- Wireline, naming.
- Ordering order.
- Use the product catalog.
- PLC and applications, PLC-based control system components and their application in the panel.
- Start with designing a complete operational project.
- Command Prompt, how to set up an interface between a PLC in Electrical panel.
- Varieties of PLC types, standard inputs and outputs.
- Hardware and software configuration in a variety of PLC.
- Introduction to logic circuits, digital logic, inputs for digital and analog outputs.
- Apply PLC programming languages and program execution. Equivalent command and logic circuits and their implementation in the PLC.
- Logic design and implementation techniques and algorithms in PLC.
- Launching various projects and programming, simulating software applications.
- How to send and receive applications from the device.
- Familiarity with a variety of pages in EPLAN, the relationship between PLC and EPLAN.
- Drawing environment, single-line and multi-line maps.
- Cognitive tools for drawing and schematic drawing of schematics.
- Cognitive graphic tools and drawing graphic maps.
- EPLAN Software How To Create A New Symbol.
- Create a project.
- Statements.
- Practical work with EPLAN, PLC.
- Complete a project.

Lectuer of course:

Ramtin.khalatpour

- Electrical engineer
- Project manager & Electrical designer
- Lectuer of electrical courses
- MBA certificate
- Technology managment



With 13 years of experience in major Iranian companies and teaching in Iran's educational and industrial centers.

Such as:

- ✓ Iran switch Co.
- ✓ Andisheh negar pars Co.
- ✓ Petrochemical Training Center
- ✓ Steel Training Company
- ✓ Continental Technical Complex
- ✓ Tehran Technical Complex
- ✓ Technical Complex MEM
- ✓ Novin Parsian Technical Complex
- ✓ Electrical Industry Syndicate

Contact:

- ❖ Special countries: Oman, UAE, Qatar, Kuwait
- ❖ For more information, please contact us
- ❖ Registration is possible individually and collectively

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