

TRANSTECH SOLUTIONS OCCUPATIONAL SAFETY & HEALTH TRAINING & CONSULTANTS LLC.



"Solutions Through Innovations"

Electrical Power Distribution for Industrial Plants 5 Days Training



TSLOSHTC a Training Provider with a Mission

Course objectives

The attendee will gain good knowledge about the following topics:

- Key principles electrical projects & planning in distribution systems.
- Standards and recommended practices.
- Electrical distribution systems.
- How to select, maintain and control DC and AC motors.
- The characteristics, properties, insulation, shielding, jacketing, short circuit capabilities, and references of wires and cables.
- Transformers ratings, application, selection, and safety.
- Medium and low voltage switchgear and motor control centres.
- Topics in faults and circuit protection.
- Distribution, construction, fuses, circuit breakers, disconnects, grounding, types, and ratings of switchboards and panels
- UPS and batteries and System grounding philosophy.
- Classifications of hazardous areas, equipment certification, and equipment protection methods.

Course Outline

- Main Concepts of Electric Distribution Systems
- Transformers, Earthing Systems & Bonding
- Low & Medium Voltage Switchgear
- Power cables, Protection and Protective Relays
- Uninterruptible Power Supply Systems (UPS) & DC Storage Batteries
- AC & DC Motors and Hazardous area classifications & Methods of protection

Who Should Attend

The course is designed for:

- Facilities and Project Engineers with two or more years of experience;
- Electrical Supervisors
- Instrumentation Engineers
- Controls Engineers with two or more years of experience.

Course Methodology

The course is designed to maximize delegate benefit from the outset. The goals of each participant are discussed to ensure their needs are fulfilled as far as possible. Questions are encouraged throughout particularly at the daily wrap up sessions. This provides opportunities for participants to discuss specific issues and if possible find appropriate solutions. Case studies are employed to highlight particular points and appropriate video materials used to illustrate particular conditions.

Assessment & Certification

All candidates that pass the written assessment shall receive a Certificate for successfully completing the Electrical Power Distribution for Industrial Plants Course. Others will be provided with attendance certificates.

Our Instructor

All our instructor have 30+ years' experience and high degree such as:

- Master's degree,
- Doctoral degree
- Professional degree.

Course Prerequisite

- English Language (Average Fluency)
- Basic Electrical Engineering (Preferable)

Venue

5 Stars Hotel in Abu Dhabi, or Dubai
and Available Online as per your requisite

Duration

5 Days Training

Course Language

- English
- Arabic



ACTVET

Abu Dhabi Centre for
Technical and Vocational
Education and Training

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للتعليم والتدريب
التقني والمهني

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Address: Gasos Building, Mussaffah M15, Office No. 13th, 14th 15th

Abu Dhabi, United Arab Emir

Tel.: +971 (02) 5533 088, Phone: +971 50 6521 626

Email: marketing21@transtk.com, tsltager@gmail.com