

Scandinavian Academy
Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Fundamentals of Electrical Equipment

Code	City	hotel	Start	End	price	Language - Hours
EE-755SA	Alula	Hotel Meeting	2027-06-13	2027-06-17	13950 SR	En - 25

Description

This course covers the fundamentals of electrical equipment, such as power generation, power distribution, transformers, circuit breakers, switches, safety with electrical equipment, motor fundamentals, AC motor fundamentals, AC motor parts and functions, AC motor controllers, AC motor startup and operating checks, DC motors and motor controllers

Objective

- Understand power generation and distribution.
- Understand transformers operation, components, and responsibilities.
- Be familiar with circuit breakers.
- Be familiar with switches.
- Be familiar with safety with electrical equipment.
- Understand motor fundamentals.
- Understand motor controllers

Outline

Power Generation.

- Off-site power generation.
- On-site power generation.
- Power Distribution.

Transformers.

- Transformer operation.
- Transformer components.
- Operator responsibilities.
- Transformer Protection

Circuit Breakers.

- Circuit breaker operation.
- Resetting a tripped breaker.
- Racking out a breaker.
- Switches.
- Pushbutton switches.
- Rotatory switches.

Safety with Electrical Equipment.

- Electrical hazards.
- Electrical shock.
- Electrical fires.

Motor Fundamentals.

- AC Motor Fundamentals.
- AC Motor Parts and Functions.
- AC Motor Controllers.
- Motor controllers and motor control centers.
- Motor controller operation.

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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