

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: Modern Power System Protective Relaying

Code	City	hotel	Start	End	price	Language - Hours
EE-331SA	Al Baha	Hotel Meeting	2027-05-16	2027-05-20	13950 SR	En - 25

OVERVIEW

After participating in this course, you will be able to:

- use your knowledge of protection techniques
- further your understanding of protective devices
- determine your own relay settings
- apply your awareness of recommended practices in protection schemes
- understand problems generally faced and solutions

Description

Protection of low, medium and high voltage power systems requires an understanding of system faults and their detection, as well as their safe disconnection from the power system. This course presents a comprehensive and systematic description of the concepts and principles of operation and application of protection schemes for various power system elements such as feeders, transformers, motors, buses and generators. This course deals with protection systems from a practical perspective and includes important functional aspects such as testing and coordination of protection systems.

This course is specially designed for industries and utilities which depend on proper system protection for operational efficiency and minimizing damage to equipment.

Who Should Attend

- Engineers

- Technicians and Technologists in the Industrial, Consulting and Utility fields
- Those Involved in Design, Regulatory Inspection, Operation and Maintenance

Course Outline

- Power System Faults
- Components of Power System Protection Schemes
- Current Transformers and Voltage Transformers
- Feeder Overcurrent Protection
- Coordination of Electrical Protection Systems
- Motor protection
- Bus Protection
- Transformer Protection
- Generator Protection
- Cogeneration and Non-Utility Generation (NUG) Protection
- Transmission Line Protection
- Capacitor Protection

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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