

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: Power Cable Engineering

| Code | City | hotel | Start | End | price | Language - Hours |
|---|---|---|---|---|---|---|
| EE-328SA | Al Baha | Hotel Meeting | 2027-04-04 | 2027-04-08 | 13950 SR | En - 25 |

## OVERVIEW

**After participating in the course you will be able to do the following:**

- specify cables for your application
- interpret field testing results
- apply necessary criteria for installation of power cables
- know installation methods and limitations

## Description

Recent changes in technology have made it essential for engineers to update their methods for selecting and installing cable systems. The correct cable system is necessary for efficient implementation and operation of projects. This course deals with theory and engineering practices that are relevant to power cables, providing basic understanding of cable construction and applicable standards.

Worked examples will be used to discuss the cable system design process, which involves cable selection, ampacity determination, and sizing criteria. The course will also present and demonstrate above grade and buried cables installation requirements, covering utility distribution (4 kV - 35 kV) and industrial and power plant (4 kV - 15 kV) cable classes.

## Who Should Attend

- Industrial, Utility, or Plant Electrical Engineers

- Technicians Responsible for the Design, Selection, and Installation of Insulated Cables and Accessories
- Consultants
- Cable Manufacturers
- Installation Contractors

## Course Outline

- Basic Concepts of Wire and Cable Construction
- Conductors
- Insulating Materials for Cables
- Testing Techniques
- Electrical Characteristics of Cables
- Cable Sizing
- Cable Installation
- Exposed cable
- Cable Systems Workshop: Design and Installation

**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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