



**Energy, Electrical Engineering**



**SCANDINAVIAN ACADEMY**  
Training and Development

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# Course: Power Cable Engineering

Code	City	hotel	Start	End	price	Hours
328	Muscat (Oman)	Hotel Meeting Room	2024-06-02	2024-06-06	3950 €	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.

## 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

## 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



**The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:**

- **Theoretical Lectures:**
  - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
  - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
  - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
  - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
  - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
  - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
  - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
  - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
  - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
  - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.