



Energy, Electrical Engineering



SCANDINAVIAN ACADEMY
Training and Development

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Course: Maintenance & Protection of Transformer Stations

Code	City	hotel	Start	End	price	Hours
754	Toronto (Canada)	Hotel Meeting Room	2024-09-30	2024-10-04	6450 €	25

Objective

- Understand transformer theory
- Tests power transformer
- Understand type of transformer
- transformer cooling systems
- Understand transformer protection procedures

Who should Attend

- Electric power engineers.
- Supervisors and qualified technicians

Outline

- Introduction:
 - Terminal and Neutral Point Winding Rating
 - Losses And No-Load Testing
 - Temperature Rise
 - Insulation Connections Tapping
- Transformer Theory:
 - Constructional Features
 - Transformer Tests
 - Transformer Performance
 - Three-Phase Transformer
 - Other Transformer Types
- Testing Power Transformer
- Transformer Cooling Systems
- Transformer Oil
- Transformer Protection:
- Transformer Faults
- Winding Connection And Earthing Effects
- Star Winding



- Delta Winding
- Gas and Oil Surge Protection
- Over-current and Earth Fault
- Tank Leakage Protection
- Typical Protection Schemes



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.