



**SCANDINAVIAN ACADEMY**  
Training and Development

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# Course: Advanced Digital Monitoring of Licensees in the Energy Sector

Code	City	Hotel	Start	End	Price	Language - Hours
EE-905	Singapore (Singapore)	Hotel Meeting Room	2027-01-18	2027-01-22	6450 €	En - 25

## Course Introduction:

With the rapid growth of the energy sector and increasing reliance on digital systems, effective monitoring of licensees has become essential to ensure compliance with regulations, codes, and technical standards. This course offers an advanced platform for building the capabilities of regulatory professionals to oversee licensee performance using modern digital tools and technologies that enhance operational efficiency, transparency, accountability, and data-driven decision-making.

The course focuses on developing a comprehensive understanding of regulatory monitoring processes, designing effective compliance frameworks based on key performance indicators (KPIs), and applying advanced tools such as Geographic Information Systems (GIS), SCADA integration, mobile inspection tools, and real-time digital reporting systems. Participants will gain practical skills to develop and implement a robust and efficient digital monitoring framework within their organizations.

## General Objective:

To equip participants with the knowledge and tools to apply advanced digital techniques for effective monitoring of licensees in the energy sector, enhancing regulatory compliance, performance transparency, and institutional decision-making.



## Detailed Objectives:

### By the end of this course, participants will be able to:

- Apply modern techniques and digital tools to monitor licensee compliance with regulations, codes, standards, and directives in the energy sector.
- Develop effective monitoring frameworks to enhance efficiency despite limited manpower.
- Implement real-time monitoring and reporting systems to replace manual processes.
- Improve regulatory transparency, accountability, and evidence-based decision-making.

## Target Audience:

### This course is designed for:

- Regulatory monitoring engineers in the energy sector
- Compliance officers responsible for licensee oversight
- Professionals involved in utility and licensee performance monitoring
- Technical and regulatory staff seeking to modernize monitoring practices using digital tools

## Course Content:

### Day 1: Introduction to Regulatory Monitoring in the Energy Sector

- Roles and responsibilities of regulatory authorities
- Challenges in manual monitoring and transitioning to digital systems
- Overview of international best practices in licensee monitoring
- Case studies from leading regulatory bodies



## **Day 2: Key Performance Indicators and Data Requirements**

- Formulation and application of KPIs for regulatory compliance (including SAIFI, SAIDI)
- Data collection strategies for effective monitoring
- Ensuring data accuracy, quality, and integrity
- Building monitoring checklists and compliance dashboards

## **Day 3: Advanced Digital Tools for Monitoring**

- Introduction to real-time monitoring platforms and software
- GIS-based compliance monitoring systems
- Integrating SCADA data for performance tracking
- Use of mobile inspection tools and digital reporting applications

## **Day 4: Performance Audits and Impact-Based Evaluation**

- Planning and executing performance audits for licensees
- Using audit findings to improve regulatory compliance
- Developing impact-based evaluation frameworks
- Practical group exercise: Designing a monitoring and evaluation workflow

## **Day 5: Practical Application and Action Planning**

- Designing a digital monitoring framework tailored to your organization's needs
- Setting up dashboards for real-time monitoring and reporting
- Change management and capacity-building strategies within regulatory bodies
- Developing an action plan for implementing learnings post-training



The Scandinavian Academy for Training and Development 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 and Development.

### **Program Timings:**

- 9:00 AM to 2:00 PM in Arab cities.
- 10:00 AM to 3:00 PM in European and Asian cities.

### **The program includes:**

- A daily Coffee Break provided during the sessions to ensure participants comfort.