SCANDINAVIAN ACADEMY

For Training and Development

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Course: Security Risk Assessment (SRA) Methodology Based on API 780 Standard

Code	City	Hotel	Start	End	Price	Language - Hours
SM-861	Casablanca (Morocco)	Hotel Meeting Room	2027-02-28	2027-03-04	3950 €	En - 25

Introduction:

Security Risk Assessment (SRA) based on the API 780 standard is a critical tool for identifying, analyzing, and evaluating security risks that may impact industrial facilities and critical infrastructure. This standard provides a comprehensive framework to help organizations assess potential threats and determine appropriate mitigation measures.

This training course aims to equip participants with the knowledge and tools necessary to effectively apply the Security Risk Assessment (SRA) methodology, focusing on threat analysis, vulnerabilities, consequences, and mitigation strategies.

General Objective:

Enable participants to understand and apply the Security Risk Assessment (SRA) methodology based on API 780 to enhance facility security and develop effective risk management strategies.

Objectives:

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

- Understand the fundamental concepts of industrial security and risk assessment.
- Comprehend the requirements of API 780 and how to apply them in various environments.

- Identify and analyze security threats affecting industrial facilities and critical infrastructure.
- Assess vulnerabilities in security systems and determine associated risks.
- Evaluate the potential consequences of security incidents or unexpected events.
- Develop risk mitigation strategies to enhance security and minimize threats.
- Implement a practical Security Risk Assessment (SRA) through case studies and exercises.
- Prioritize security measures and make strategic decisions based on assessment results.
- Understand the role of modern technologies such as AI and security analytics in improving risk assessment.
- Prepare professional security risk assessment reports and effectively present them to senior management.

Target Audience:

- Security professionals and industrial facility protection officers.
- Risk managers and safety/security officers.
- Engineers and consultants in security and safety fields.
- Law enforcement personnel responsible for critical infrastructure protection.
- Cybersecurity and integrated security assessment specialists.
- Project managers and risk management professionals.

Course Content

Day 1: Introduction to Security Risk Assessment (SRA) Based on API 780

- Understanding the SRA methodology and its importance.
- Overview of the API 780 standard and its requirements.
- Elements of security risk assessment: threats - vulnerabilities - consequences.
- Difference between risk analysis and traditional security assessment.
- Case studies on risk assessment in various facilities.

Day 2: Identifying and Analyzing Security Threats

- Classification of threats according to API 780.
- Analyzing potential security scenarios.
- Tools and techniques for security risk assessment.
- Practical applications for threat identification and impact analysis.
- Workshop: Identifying and assessing threats in industrial environments.

Day 3: Evaluating Vulnerabilities and Consequences

- Identifying vulnerabilities in facilities and infrastructure.
- Measuring the level of exposure to security risks.
- Analyzing the impact of security incidents on operations.
- Security assessment tools: Risk matrix - impact analysis - attack scenarios.
- Hands-on exercise: Developing a vulnerability and consequence assessment model.

Day 4: Mitigation Strategies and Risk Management

- Developing effective risk mitigation strategies.
- Security protection measures: organizational controls - advanced technologies - defense systems.
- Case studies of successful mitigation strategies.
- Developing an integrated security plan to counter threats.
- Workshop: Designing and implementing risk mitigation strategies.

Day 5: Practical Implementation and Security Reporting

- Comprehensive review of Security Risk Assessment (SRA) steps.
- Case study: Practical implementation of the SRA methodology.
- Preparing professional security risk assessment reports based on API 780.
- Presentation and discussion of reports with stakeholders.

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 will receive comprehensive training materials, including theoretical content, practical exercises, and supporting resources, provided in both printed and digital formats. 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.