



Scandinavian Academy
for Training and Development AB

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Course: Advanced Process Risk Assessment & Risk Management

Code	City	Hotel	Start	End	Price	Language - Hours
GRC-200	Los Angeles (US)	Hotel Meeting Room	2026-09-28	2026-10-02	6950 €	En - 25

INTRODUCTION

Health, Safety and Environmental Management Systems are based on a proactive process for incidents prevention as well as reactive monitoring of performance. Risk assessment is required to be applied to all activities that impacts on health & Safety, production, asset, environment and the Company

reputation. In this seminar you will learn how to:

- Improve your practical skills in applying advanced risk assessment techniques relevant to the process industry
- Effectively balance risk against cost in order to optimize risk reduction measures
- Motivate your people for improved safety culture
- Appreciate the role of Quantified Risk Assessment and major hazards
- Apply root-cause analysis to incident investigation and analysis

PRE-REQUISITES

- Previous experience in the application of general risk assessment is preferred

PROGRAMME OBJECTIVES

- Recognise the difference between hazard, risk and risk assessment
- Learn how to evaluate different types of risk



- Develop the skills of applying advanced risk assessment techniques relevant to the process industry
- Develop a strategy for planning and implementing risk reduction action plans
- Appreciate the contribution of human error to accidents
- Be able to apply advanced techniques for root-cause analysis for incidents

TRAINING METHODOLOGY

Participants will learn by active participation during the programme through the use of exercises, syndicate and group discussion, training videos and discussions on relevant types of accidents and "real life" issues in their organisations.

PROGRAMME SUMMARY

The programme aims to provide hands-on experience in the application of advanced risk assessment techniques to all aspects of the process industry. It includes analysis of the consequences of major hazards, in terms of fire, explosion and toxic releases. These are modelled using advanced commercial software. Aspects of human error in relation to accidents are analysed and included in methods for promoting a positive safety culture in your organisation.

This training session also explores the role of analytical investigation and root-cause analysis based on Fault Tree Analysis.

Participants will be able to apply skills learnt from this training at a practical level to implement the Company's HSE Management System. In addition to your professional development, your organisation should be able to implement, monitor and review HSE action plans.

PROGRAMME OUTLINE



DAY 1 - Advanced Risk Assessment Techniques 1: HAZOP

- Introduction to hazards identification and analysis techniques
- Techniques for hazard identification and analysis- HAZOP
- Syndicate exercise- application of HAZOP to batch and continuous processes
- Integrating HAZOP within the risk management system
- Review of commercial HAZOP software

DAY 2 - The role of Quantified Risk Assessment 'QRA'

- Failure Modes & Effects Analysis 'FMEA'
- Decision trees and Event Tree Analysis 'ETA'
- Sources of failure data
- Fault Tree Analysis 'FTA'
- Quantification of ETA and FTA
- Evaluation of Individual and Societal Risks

DAY 3 - Mechanics of Fire, Explosion and Toxic Releases

- The role of consequence analysis in QRA
- Types of Fires: Jet flame, pool fire, flash fire, BLEVE
- Types of Explosion: VCE, UVCE, pressure burst, dust explosion
- Vulnerability analysis
- Commercial software for modelling releases, fire, explosion and toxic releases

DAY 4 - Advanced Incidents Investigation Techniques

- Human contribution to accidents
- The role of root cause Analysis in identifying management system failures
- Accident investigation techniques
- Latent failure and root causes for incidents
- Techniques for root-cause analysis



DAY 5 - Promoting a positive safety culture

- Introduction to Safety Culture
- Techniques for improving safety culture
- Measuring improvements in safety culture
- Integrating safety culture within the HSE Management System



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:

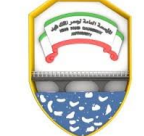
- 9:00 AM to 2:00 PM in Arab cities.
- 10:00 AM to 3:00 PM in European and Asian cities.

The program includes:

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



Our Success Partners





SCANDINAVIAN ACADEMY

Training and Development

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