



**Health, Safety  
Security & Environment**



**SCANDINAVIAN ACADEMY**  
Training and Development

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# Course: Human Error Analysis & Prevention

Code	City	hotel	Start	End	price	Hours
182	Muscat (Oman)	Hotel Meeting Room	2024-05-12	2024-05-16	3450 €	25

## Introduction

Human errors refer to the environmental, organisational and job factors, and human and individual characteristics which influence the behaviour at work in a way which can affect an organisation's health and safety performance. A simple way to view human error is to think about three aspects: the job, the individual and the organisation and how they interact to impact on health and safety related human behaviour.

After an accident involving human failure - using human error analysis tools can identify the causes and contributing human error factors. Establishing these underlying causes of an accident/incident is the key to preventing similar human error accidents/incidents.

This course is aimed at providing delegates with the practical on-site knowledge and skills to develop and successfully implement effective human error analysis techniques.

## Objectives

**Participants attending the programme will:**

- Explain the various human error analysis techniques and how they can be used
- Show how human behaviour can lead to human errors and incidents/accidents
- Provide practical ideas and methods for observing and preventing human errors
- Review practical case studies to show how other organisation have used human error analysis techniques to prevent human errors in the workplace

## Training Methodology

Delegates will learn by active participation through inspiring presentation tools and interactive techniques presented in a lively, enthusiastic and interesting style. Delegates will take part in practical human error analysis exercises and group discussions, as related to their own organisation's workplace activities.

## SEMINAR OUTLINE

### DAY 1



## **Introduction to Human Error**

- What is human error?
- Understanding the different types of human error
- Human Error related workplace and job task causation factors
- Human failures in the causes of accidents/incidents
- Exercise: Define human error and prevention objectives

## **DAY 2**

### **Human Error Analysis Factors**

- Managing Rule-Breaking situations (Violations)
- Human behaviour patterns leading to human errors
- Cultural behaviour and sensory and perception
- Using the Shell 'Hearts and Minds' toolkit to improve human behavioural factors
- Exercise: List the different types of human errors and prevention options

## **DAY 3**

### **Observation Methods for Unsafe Acts and Conditions**

- Using the Dupont 'STOP' on-site safety observation tool for
  - Observing Substandard Practices and behaviour
  - Observing Substandard Conditions
- Using 'Job Safety Analysis' to identify and assesses types of human errors
- Exercise: Identify human errors of presented accident scenario

## **DAY 4**

### **Human Error Analysis Techniques**

- Analysing site operations human error situations
- Using the 'Human Reliability Assessment' (HRA) human error analysis technique
- Human error observation and prevention options
- Options and Solutions for preventing human errors
- Exercise: Using Fault Tree Analysis method to analyse human errors

## **DAY 5**

### **Human Error Analysis & Prevention - Getting Started**

- Identifying and categorising human errors in the workplace
- Considering Human factors when analysing incidents and accidents
- Review of Human factors in existing work methods and procedures



- Human error analysis within the health and safety management syst
- Exercise: Checklist for observing human errors in the workplace
- Course Review: Key points summary of course topics



**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.