

H S E

HEALTH

SAFETY

ENVIRONMENT



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Safety & Risk Assessment Inception

Duration: 5 Days



Introduction:

If you are responsible for Health and Safety in the workplace, then it is imperative that you know how to carry out an effective risk assessment. In fact, failing to complete this activity properly so that you can ensure that the personnel are, not only equipped for their role, but are competent enough to do it safely will mean that you are contravening Health and Safety Legislation. This course will introduce you to the procedures that you need to carry out in order to be able to make an effective risk assessment in your workplace. It covers topics like: what is a hazard? the different types of workplace hazard; hidden hazards – hazards that may not be immediately obvious; what is risk; the risk assessment process; HAZOP and risk control. It presents the cutting edge of advanced risk assessment and risk management techniques that are based on latest International Standards and best industry practice. design implement and monitor effective risk assessment and risk

Who Should Attend?

Employees, Coordinators, Supervisors, Engineers and Managers accountable for implementing health and safety matters, individuals nominated to undertake the role of Risk Assessor, Health and Safety Coordinators & Personnel, individuals who may have specific health and safety responsibilities defined in their job descriptions

Course Objectives:

By the end of this course delegates will be able to:

- Understand the fundamentals of risk assessment and risk management systems
- Understand the relevance, structure and purpose of ISO 31000
- Describe the risk management process
- Perform a complete risk assessment
- Learn how to effectively identify, assess and document risk
- Inventory an organization's most critical information assets
- Assign classification values to critical information assets
- Prioritize risk remediation efforts as a result of performing a risk assessment
- Evaluate risk management models for use in their own organization
- Learn how to map an organization's business requirements to implemented security controls
- Learn the elements of risk assessment and the data necessary for performing an effective risk assessment
- Learn how to comply with the Management of Health & Safety at Work Act
- Complete a short assessment which leads to an IOSH Risk Assessment Certificate

Course Outline:

Risk Assessment inception to maturation

IOSH Introduction to Risk Assessment

Introduction to Health and Safety Legislation

The Health and Safety at Work Act

Introduction to the Management of Health & Safety at Work Regulations

Introduction to Risk Assessment & HSE Management Systems

The Risk Assessment Process

- Define the terms “hazard”, “consequence” and “likelihood”
- List common hazards, Demonstrate how to quantify risk
- Understand the risk assessment process
- Demonstrate an ability to complete a risk assessment

Risk Control Management

Hazard and Operability Studies 'HAZOP'

- Introduction to hazards identification and analysis techniques
- Techniques for hazard identification and analysis - HAZOP
- Syndicate exercise - application of HAZOP to relevant processes
- Planning and implementing within risk management system

Modern HSE Management Systems

- Introduction to HSE Management Systems
- Elements, sub-elements and expectations of HSE-MS
- The role of risk management within HSE-MS
- The role of HSE Audits
- Procedures for planning and implementing of action plans

Risk Control Management

- Explain the hierarchy of control measures
- Explain when a risk assessment should be reviewed
- Conducting a Risk Assessment, Complete a risk assessment

Modern Incidents Investigation Techniques

- Human contribution to accidents
- The role of root cause Analysis in identifying management system failures
- Accident investigation techniques I: Fault Tree Analysis (FTA)
- Preparation of action plans
- Incident investigation techniques II: Events and Causal Factors Analysis (E and CFA)

Major Hazards Control

- Control of Major Accident Hazards Codes of Practice
- The HSE - Safety Case Concept, Elements of emergency planning
- Integrating HSE within major projects plans
- Elements of Projects HSE Plans, Project HSE Reviews (PHSER)

Human Factors and Reliability

- Introduction to human factors and human error
- Hierarchical task analysis 'HTA'
- Task-based HAZOP: Application to critical activities onshore and offshore
- Working in small groups on task-based HAZOPs, Report back
- Integrating human factor within HSE management system - The Bhopal disaster

Promoting a Positive Safety Culture

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