MERCURY

Risk & Human Factor

16 – 20 May 2027
Muscat (Oman)



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Introduction

The Risk & Human Factor course explores the critical interaction between human behavior and organizational risk. It emphasizes understanding, assessing, and mitigating risks arising from human factors across various professional settings. Participants will learn to identify behavioral patterns, manage safety protocols, and reduce operational errors. The course addresses the psychological, organizational, and environmental factors that influence risk. It equips professionals with strategies to improve decision-making and promote a safety culture. The program blends theoretical knowledge with practical insights to enhance risk management effectiveness.

Targeted Groups

This Risk & Human Factor course targets professionals seeking specialized knowledge and skills:

- Safety managers and officers
- Risk assessment specialists
- Human resources professionals
- Operational and project managers
- Compliance and quality assurance personnel
- Healthcare and industrial supervisors
- Organizational behavior analysts

Course Objectives

Participants will achieve the following objectives by completing the Risk & Human Factor course:

- Understand the role of human behavior in risk creation
- Identify key human factors affecting safety and performance
- Develop strategies to mitigate operational errors
- Enhance decision-making under risk conditions
- Apply behavioral analysis in organizational settings
- Integrate human factor principles into risk management policies
- Improve overall workplace safety culture
- Analyze incidents for root causes linked to human behavior

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Targeted Competencies

Participants will gain the following competencies during the program:

- Recognize human factors contributing to risks
- Evaluate operational procedures for potential errors
- Apply safety management frameworks
- Conduct behavioral risk assessments
- Implement corrective strategies effectively
- Communicate risk findings clearly
- Foster safety awareness in teams
- Reduce errors through behavioral interventions
- Strengthen organizational resilience

Studying Scenarios

In this training, participants will develop their skills through the analysis of the following scenarios:

- Workplace accident investigations
- Operational failures due to human error
- Behavioral risk assessment in healthcare
- Crisis response and decision-making
- Safety compliance audits
- Human factor integration in project planning
- Risk mitigation in high-stakes environments

Course Content

Unit 1: Understanding Human Factors in Risk

- Define human factors in risk management
- Explore psychological influences on behavior
- Examine organizational culture impacts
- Identify common human errors
- Study environmental contributors to risk
- Understand fatigue, stress, and workload effects

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Unit 2: Risk Assessment and Human Behavior

- Conduct human-centered risk assessments
- Identify behavioral risk indicators
- Apply incident reporting techniques
- Use risk analysis frameworks
- Evaluate procedural weaknesses
- Prioritize risks based on human factors

Unit 3: Mitigation Strategies and Safety Management

- Develop error prevention strategies
- Implement safety management systems
- Promote team-based risk reduction
- Apply behavioral correction methods
- Integrate technology for risk control
- Establish safety protocols and standards

Unit 4: Decision-Making and Crisis Response

- Analyze decision-making under pressure
- Recognize cognitive biases in risk situations
- Plan crisis management interventions
- Use scenario-based simulations
- Review past case studies for lessons
- Strengthen proactive decision strategies

Unit 5: Organizational Culture and Continuous Improvement

- Embed human factor awareness in culture
- Foster continuous safety training
- Monitor and review behavioral outcomes
- Apply feedback loops for risk reduction
- Encourage reporting and transparency
- Develop long-term safety policies
- Evaluate organizational resilience

Final Insights & Key Takeaways

Understanding the human factor is essential for effective risk management. This course equips professionals to minimize errors and enhance organizational safety.