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Engineering, Enviroment, Education, Research

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## **Environmental Risk Management and Assessment - Learning Series**

**Course Title:** ENVIRONMENTAL RISK MANAGEMENT AND ASSESSMENT TRAINING

**Course Duration:** Two Days (9.00 am – 4.00 pm)

**Course Description:**

This course is designed as a tool to explain all the requirements and compliance to help in the identification of risk exposures and assessing the threat affecting the environment and/or human health. This involves developing and implementing control measures for environmental hazards, given prevailing scientific, social, economic and regulatory influences.

This course details the planning, executing and managing major risk with the understanding of organized risk assessment and management, multidisciplinary approach to evaluating scientific data, the techniques involved in analyzing risks, general principles and terminologies used in the field, and limitations of current risk assessment methodologies. Gain an overview of the theory of risk analysis by exploring hazards and risks-perceived or actual-in relation to emergency preparedness, cost benefit analysis, stakeholder influence and risk communication.

**Course Objectives:**

1. Discussing and understanding the fundamentals of the risk assessment and management procedures
2. Identifying and classifying environmental hazards and risks
3. Evaluating the significance and likelihood of environmental harm which might derive from a specific activity.
4. Understanding the scope of environmental risk assessment by specifying what needs to be protected from harm, and by identifying potential harmful effects
5. Identifying risk management choices
6. Discussing the hierarchy of risk management strategies
7. Understanding the legal and ecological risk exposures
8. Understanding human safety and health risk exposures
9. Understanding risk communication

**Course Content:**

1. Introduction and overview of environmental risk management and assessment
2. Understanding the context risk management process
3. Environmental Risk Assessment and Hazards
4. Requirements for assessment and hazard identification process
5. Risk Analysis
6. Risk Matrix
7. Tools for mitigating risks
8. How to mitigate risk
9. Hierarchy of controls
10. Environmental performance and Continual Improvement

**Course Benefits:**

On completion of this ERAM training course you will be able to:

1. Identify and control thoroughly potential environmental risks
2. Set impacts assessment priorities and manage uncertainty
3. Develop a risk management system, addressing key elements of risk identification, assessment, mitigation and communication
4. Facilitate critical decision-making, risk tolerance, risk evaluation techniques and cost benefit analysis.
5. Estimate the consequences of environmental hazards to the ecology and human health
6. Provide assurance to stakeholders that adverse environmental impacts as a result of human activity are taken into consideration
7. Provides commitment and dedication to environmental protection and continual improvement, while enabling you solve complex environmental issues.