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HS213:
Environmental Risk Assessment and Management

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Training Description:

Environmental risk assessment and management (ERAM) is a tool that is increasingly being used by many organizations to identify their risk exposures as part of corporate-wide risk assessment and management programs. ERAM also supports environmental impact assessment (EIA) and environmental management programs, while it may also be used as a tool to identify aspects in line with ISO 14001 requirements.

The ERAM is a relatively new field that encompasses a widely recognized framework and various methodologies for evaluating and managing risks from environmental contaminants and technological hazards. The curriculum of this course goes beyond the extent of most similar training programs, since both environmental risk management (ERM) and the latest thinking regarding corporate-wide risk assessment are addressed in the course.

The primary focus of this course is to equip environmental practitioners and managers with the necessary skills to conduct environmental risk assessments and to generate risk management plans.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Discuss the risk assessment and management procedure
- ✓ Identify and classify environmental hazards and risks
- ✓ Identify risk management choices
- ✓ Discuss the hierarchy of risk management strategies
- ✓ Diversify the portfolio of risk management strategies
- ✓ Understand legal risk exposures
- ✓ Understand ecological risk exposures
- ✓ Understand industrial product-based risk assessments
- ✓ Discuss human safety and health risk exposures
- ✓ Discuss radiation risk exposures
- ✓ Understand risk communication
- ✓ Discuss imperatives for corporate-wide risk exposures

Training Designed for:

This course is intended for Project Managers, Environmental Engineers, Project Coordinators Project Control Personnel, Owner Consultants and Contractors responsible for Planning, executing and managing major projects will gain an understanding of risk assessment as an organized, multidisciplinary approach to evaluating scientific data, the techniques involved in analyzing risks, generally accepted principles and terminology used in the field, and limitations of current risk assessment methods.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Course objectives and requirements
- ❖ Outline of the subjects to be covered

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- Introduction to risk sciences
- Human Health Risk Assessment
  - Basic concepts and current approaches
  - Risk assessment paradigm
  - Hazard identification, dose/response assessment
  - Exposure assessment, modeling and monitoring approaches
  - Conceptual site models
  - Risk characterization

DAY TWO:

- Risk Management
  - Principles of risk management
  - Principles of applying risk results
  - Science/policy interface
  - Balancing human health and ecological risks
  - Acceptable risk
  - Managing risk assessments
  - Group discussion

DAY THREE:

- Risk Communication and Risk Perception
  - Risk comparisons
  - Guidelines for communicating risk information
  - Public participation in the decision-making process
  - Risk = Hazard + Outrage: A formula for effective risk communication
  - Risk assessment software demonstration
  - Internet applications

DAY FOUR:

- Regulatory Issues in Risk Assessment
  - Risk basis of selected regulatory programs
  - Risk reduction
  - Risk-based priority setting (comparative risks)
  - Current legislation
  - Risk assessment/cost-benefit studies
  - Case study and discussions

DAY FIVE:

- Risk Assessment for Accidental Introductions
  - Pathways of accidental invasion
  - Pathways based risk assessment
- Legislating Authority for Risk Analysis
  - SPS agreement
  - Potential strengths
  - Potential concerns
  - Convention on Biodiversity

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- Comparison of the SPS agreement and the CBD for exotic species

❖ Course Conclusion
❖ POST-TEST and EVALUATION

Training Requirements:

"**Hands-on practical sessions, equipment** and **software** will be applied during the course if required and as per the client's request".

Please note that the above topics can be amended as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:
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Training & Career Development Department