BTS
Training & Consultancy

HSE

HEALTH SAFETY ENVIRONMENT

Contact us

Website: https://btsconsultant.com/

Email: info@btsconsultant.com

UAE office Tel: +971 26446633

Egypt Office Tel: +2 0502308081

Environmental Risk Assessment and Management

Duration: 5 Days

Introduction:

Managing risk is increasingly being recognized as a critical management skill.

Risk uncertainty, assessment, and management, when used correctly is a highly effective problem solving tool for line- management, that not only identifies the risks to people, but also to environment, facilities and business economics. It is highly relevant and effective at the planning and development phases of projects, for existing work activities and for general day-to-day problems or concerns. The course provides a practical framework for organizations to manage potential and existing environmental risks. It teaches you how to easily integrate environmental management into the business management structure to control the impacts which the activities, operations, products and services have on the environment.

Training Methodology

The training is conducted in a workshop fashion and is based with large capacity of practical sessions; and customized to the needs of the audience. Daily sessions include formal presentation, interspersed with directed discussion. In addition, there will be a facility field visit and thus, related problem-solving exercises, group workshops and discussions, analysis of real-life case studies, and focused training

videos.

The interactive tutorials are partially based on exercises that give delegates a wide understanding of health and environmental risk management issues, and practical, cost-effective solutions, under controlled learning conditions.

Certificate

BTS attendance certificate will be issued to all attendees completing minimum of 80% of the total course duration.

Who Should Attend?

Primarily aimed at professionals in the Safety, Health & Environment field who have responsibility for the environmental risk assessment and management activity within their organization and who are interested or responsible to train and educate other colleagues. It will also benefit executives and managers who require an insight and an appreciation of the techniques and principles involved in risk assessment into health and environment risk management.

Course Objectives:

The delegates will be able to:

- List the drivers and benefits for carrying out environmental risk assessments
- Understand the role of Risk Assessment in safety management.
- Identify and classify environmental hazards and risks.
- Discuss the hierarchy of risk management strategies.

- Determine when a qualitative vs. quantitative risk assessment is required
- Classify a range of hazards in the work place and in work activities
- Identify practical and cost-effective means of controlling risk.
- Apply the principle of "Uncertainty & Risk-based Decision-making".
- Determine the proper techniques to be used (HAZOP, FMEA, FTA, ETA. Etc.)
- Use reduction techniques (short term measures pending longer term solutions).
- Assist in integrating health and environmental risk assessment program into the overall corporate environmental health and safety system.

Course Outline:

1. **The Process of Risk Assessment**
    - Overview of the risk assessment process
    - Identification and assessment of key hazards
    - Proactive Vs. reactive risk management approach
    - Cumulative risk assessment-planning and scoping
    - Stages in the integrated risk assessment process

2. **Risk-based Decisions-making**
    - Risk-based Decision-making Model
    - Dealing with information precision and resource needs
    - Barriers to Risk-based Decision making
    - Key factors in choosing risk assessment methods
    - Managing a risk assessment project

3. **Developing Environmental Risk Assessment Conceptual Model and Strategies**

- Source-Pathway-Receptor (SPR) model
- Scenario building
- Screening and prioritizing the risk
- Exploit staged approach to environment risk assessment
- Structured decision making

4. **Risk and Reliability Criteria**
    - The problem with "acceptable risk"
    - Principle of "as low as reasonably practicable" (ALARP)
    - Risks to employees and others
    - Economic factors in risk criteria
    - Regulatory approaches to setting risk criteria

5. **Selecting an Appropriate Risk Assessment Approach – Applicability**
    - Relative Ranking/Risk Indexing
    - What-if Analysis
    - Failure Modes and Effects Analysis (FMEA)
    - Hazard and Operability (HAZOP) Analysis
    - Fault Tree Analysis (FTA)