TRAINING TITLE

CONSTRUCTION SAFETY PLANNING AND ENGINEERING SAFETY PLANNING

Training Duration

5 days

Training Venue and Dates

CE116	Construction Safety Planning and Engineering Safety Planning	5	03-07 Feb. 2025	$5,500	DUBAI, UAE

In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- **$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch**

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

The Construction Safety Planning and Engineering Safety Planning course is designed to equip professionals in the construction and engineering sectors with the essential skills to plan, implement, and manage safety systems effectively within construction sites and engineering projects. The course focuses on creating safety plans that prevent accidents, ensure compliance with legal and regulatory requirements, and enhance overall safety performance. It covers key aspects of safety planning, including hazard identification, risk assessment, safety procedures, emergency response planning, and the use of safety management tools and technologies. Attendees will also learn how to integrate safety measures into the design and planning phases of construction projects, ensuring that safety is prioritized from the ground up.

TRAINING OBJECTIVES

By end of course participants will be able to understand

- **Understand the fundamentals of construction and engineering safety planning.**
- **Develop comprehensive safety plans for construction sites and engineering projects.**
- **Conduct thorough risk assessments and hazard identification processes.**
- **Implement safety management systems and integrate safety measures into project design.**

P.O BOX 45304
ABU DHABI, U.A.E
T +971 2 6264455
F +971 2 6275344
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- **Understand and comply with national and international safety standards and regulations.**
- **Develop emergency response and evacuation plans for construction sites.**
- **Use safety management software and tools to track safety performance.**
- **Monitor and evaluate the effectiveness of safety plans during project execution.**
- **Foster a culture of safety among workers, contractors, and subcontractors.**

WHO SHOULD ATTEND?

- **Construction project managers and engineers**
- **Safety officers and safety managers in construction and engineering sectors**
- **Site supervisors and foremen**
- **Risk assessment specialists**
- **Environmental health and safety (EHS) professionals**
- **Safety consultants and contractors**

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.
Very useful Course Materials will be given.

- **30% Lectures**
- **30% Workshops and work presentation**
- **20% Group Work& Practical Exercises**
- **20% Videos& General Discussions**

COURSE PROGRAM

Day 1: Introduction to Construction and Engineering Safety

- **The importance of safety in construction and engineering projects**
- **Key differences between construction safety and engineering safety**
- **Understanding the role of safety planning in reducing risks and ensuring compliance**
- **Overview of global safety standards (e.g., OSHA, ISO, EU regulations)**
- **Local and international safety laws for construction and engineering projects**

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- How to stay compliant with legal and regulatory frameworks
- Liability and the importance of documentation and reporting
- Building a safety culture on construction sites
- The role of leadership in promoting safety
- Engaging workers and stakeholders in safety practices
- Safety behavior and awareness training

Day 2: Safety Risk Assessment and Hazard Identification

- Introduction to risk management in construction and engineering
- Conducting hazard analysis and risk assessments (e.g., JSA, HAZOP)
- Qualitative and quantitative risk assessment methods
- Safety hazard identification techniques: Walkthroughs, inspections, and audits
- Hierarchy of hazard controls: Elimination, substitution, engineering controls, administrative controls, and PPE
- Designing safe work practices to mitigate identified risks
- Identifying common hazards on construction sites (e.g., fall hazards, equipment failures, electrical hazards)
- The role of temporary and permanent safety systems (e.g., scaffolding, guardrails)

Day 3: Developing Construction Safety Plans

- Key components of a comprehensive construction safety plan
- Site-specific safety plans: Addressing unique hazards of each construction project
- Establishing safety objectives and setting key performance indicators (KPIs)
- Developing policies for working at heights, excavation, crane operations, and hazardous materials handling
- Developing safe work procedures for high-risk tasks
- Safety protocols for emergency response (e.g., fire, chemical spill, medical emergencies)
- Evacuation plans and communication strategies during emergencies
- Incident investigation and reporting procedures
- Selecting the right PPE for various construction tasks
- Equipment safety protocols and operator training
- Maintaining and inspecting PPE and safety equipment

Day 4: Engineering Safety Planning and Integration

- Integrating safety in the engineering design phase

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- Safety considerations in materials selection, structural design, and mechanical systems
- Designing for safety: Preventing accidents through engineering controls
- Role of engineers in safety planning and oversight during construction
- Implementing and managing safety management systems (SMS)
- Utilizing software tools for safety tracking, reporting, and compliance (e.g., safety management software, incident tracking tools)
- Continuous improvement and data analysis for safety performance enhancement
- Safety coordination with subcontractors and third-party workers
- Setting safety expectations and training subcontractors
- Monitoring subcontractor compliance with safety standards

Day 5: Monitoring, Evaluating, and Improving Safety Performance

- Conducting regular safety audits and site inspections
- Reporting systems for tracking incidents, near misses, and safety violations
- Key performance indicators for monitoring safety performance
- Analyzing and acting on audit findings to improve safety protocols
- The role of behavior-based safety in accident prevention
- Engaging workers in safety initiatives and feedback loops
- Encouraging proactive safety behavior through incentives and recognition
- The importance of continuous improvement in safety systems
- Lessons learned from safety incidents and near-misses
- Updating safety plans based on feedback and audits

NOTE:
Pre-& Post Tests will be conducted.
Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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