



المركز العالمي للتدريب والتطوير  
International Centre For Training & Development



# PMP060

## Site Construction & Project Management Workshop



INTERNATIONAL ASSOCIATION FOR  
HEALTH AND OCCUPATIONAL  
SAFETY AND THE ENVIRONMENT



## Course Introduction:

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The proposed training workshop will cover the main aspects of construction management. The topics include safety compliance, risk management, traditional and new practice in project procurement and IT applications in construction management. Further, the workshop will present detailed information on topical issues such as sustainability in construction, teamwork and leadership roles, aging infrastructure and deterioration. The workshop will involve presentations, interactive discussions.

## Course Objectives:

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**Upon successful completion of this course, the delegates will be able to:**

- ✓ Gaining a better understanding of organizational safety culture, and why traditional safety management systems are not adequate to achieve high performance
- ✓ Recognizing that safety success is a function of "transformational" change in an organizational safety culture, as well as the attitude of management and workers
- ✓ Appreciating the challenges associated with the management, financial and contractual responsibilities of construction managers and organizations from the establishment of a project team and the instigation of a contract to the project hand-over in an international environment
- ✓ Gaining invaluable information that may act as a guide for you in analyzing and managing risk
- ✓ Acquiring knowledge of recent IT tools and their related implementation issues such as strategic planning for IT use in construction and developing an IT-based strategy for your organization
- ✓ Gaining a better understanding of the different procurement choices and their degree of appropriateness to your project
- ✓ Developing knowledge of the use of key performance indicators, and understanding the critical factors for successful projects
- ✓ Acquiring knowledge of Public Private Partnership (PPP) projects
- ✓ Gaining a better understanding of professional contract administration
- ✓ Developing appreciation of sustainability concepts in the construction industry with particular emphasis on the latest international regulations
- ✓ Building up a technical foundation for assessing deterioration in buildings and infrastructure and utilization of different rehabilitation techniques.

## Who Should Attend?

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- This course is applicable for personnel engaged in construction, production, sales or technical activities who need to expand or update their knowledge of concrete.

- Companies and contractors working on offshore projects

## Course Outline:

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### Day 1:

#### **Construction Safety Management**

- Developing relevant safety management indicators
- Evaluating and promoting safety culture
- Empowering staff to take a leadership role in executing their safety responsibilities
- Relevant examples on how to take a fresh and proactive approach to managing safety

#### **Risk Analysis and Management**

- Project performance and risk management
- Systematic identification, appraisal, and management of project-related risks
- Risk environment, human aspects to risk assessment and dealing with uncertainty
- Quantitative methods and qualitative assessment for risk management

### Day 2:

#### **Modern I.T Applications in Construction Management**

- Overview of the latest IT tools developed specifically to meet the needs of modern construction practice
- Implementation issues, such as strategic planning for IT use in construction and developing an IT-based strategy for your organization

#### **International Construction Management**

- Key concepts and international issues in construction project management
- Comparison of technical, economic, managerial and cultural concepts
- Trends related to construction project management in the competitive global marketplace
- Market and organization viewpoints

### Day 3:

#### **Best Practice in Project Procurement**

- Critical overview of different procurement approaches,
- Step-by-step guidelines in selecting the most appropriate approach for procuring your project

#### **People, Teams, Projects and Success**

- Projects and people (authority and responsibility, team motivation and teamwork)

- Critical success factors for projects (the use of key performance indicators)
- Project initiation and decisions (process for project initiation and the gateway review process)
- Realistic project risk management from owners and contractors perspective

#### **Day 4:**

##### **Procurement Strategies and Contracts**

- Public Private Partnership (PPP) projects, including international perspective, governance, public interest, best value selection
- Detailed case examples of PPP projects
- Bringing a project to the market (documentation preparation, bidding and bid evaluation)
- The use of contracts for project procurement
- Professional contract administration

##### **Sustainability in Construction**

- Basic concepts and international developments
- Life cycle
- Sustainability issues (climate change, energy, resources and materials, etc.)
- Implementation in construction (strategies, design issues, tools and indicators)

#### **Day 5:**

##### **Infrastructure Deterioration Assessment: Buildings and Bridges:**

- Causes of damage/deterioration, delaminating, spalls, scaling, cracking, corrosion, deck deterioration, deck joints, bearings etc.
- Inspection, levels of inspection, visual, non-destructive testing, sample selection
- Static and dynamic load testing, laboratory based research, material properties and relationship to capacity
- Bridge assessment, risk analysis and reliability analysis
- Bridge condition assessment and rating, performance measures and technology used in condition and inventory data collection
- Bridge information and Management systems, whole of life costing and other economic considerations, maintenance, rehabilitation and replacement, reliability based assessment and management
- Modeling, parameters considered and available deterioration models
- Repair techniques

## Course Certificate:

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**International Center for Training & Development (ICTD)** will award an internationally recognized certificate(s) for each delegate on completion of training.

## Course Methodology:

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**A variety of methodologies will be used during the course that includes:**

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

## Course Fees:

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**To be advised as per course location.** This rate includes participant's manual, and-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

## Course Timings:

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**Daily Course Timings:**

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