



PM244: The Quality of Construction Projects and Dealing with Contractors

Training Description:

This intensive training course covers the construction quality control; the quality assurance procedures and the ISO 9000; the on-site responsibilities and interfaces; and the use of project quality plans.

During this interactive course, participants will learn the construction contractors and construction engineering interface; the material management, nonconformities and quality audits; scheduling management reviews and completion report; and the constructive completion and turnover.

The course is carefully developed to reflect the best practices in the petroleum industry that also match the training requirements of distinguished professional organizations such as the Project Management Institute (PMI) and FIDIC. The Professional Development Units/Hours (PDUs) or Continuing Education Units (CEUs) awarded to our participants are recognized by the Project Management Institute (PMI).

Training Objectives:

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

- ✓ Apply and gain an in-depth knowledge on project quality management including project quality plan, construction engineering, EPC projects, material management and project turnover
- ✓ Implement construction quality control, quality assurance procedures and the ISO 9000
- ✓ Practice on-site responsibilities & interfaces and use project quality plans
- ✓ Employ construction contractors and construction engineering interface
- ✓ Apply material management, nonconformities and quality audits
- ✓ Schedule management reviews & completion report and constructive completion & turnover

Training Designed for:

This course is intended for quality managers, quality engineer (QA/QC), project managers, project engineers, construction managers, construction engineers, site superintendents, supervisors and senior foremen.

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Practical sessions will be organized during the course for participants to practice the theory learnt. Participants will be provided with an opportunity to carryout various exercises using the “MS Project” and “Risky Project Software”.

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Construction & Quality

- Material, Equipment, Material & Works, Interested Parties, Project Strategy
- Contractual Environment, Quality Control & Quality Assurance
- ❖ **ISO 9000**
 - Quality Assurance, Difficulties Met, The Rationale for Formal Quality Management
 - Systems, Certification of a Quality Management System, Quality/Occupational Health & Safety/Environment
- ❖ **Recap**

DAY TWO:

- ❖ **On-Site Responsibilities & Interfaces**
 - The Owner, The EPCM Contractor, Construction Contractors, Suppliers' Representatives, Special-Service Providers, Utility Companies
 - The Insurer, Authorities, The Architect, Plant Extensions & Modifications, Small Construction Sites
- ❖ **The EPCM Contractor**
 - The Corporate Quality Manual, Creating the Site Quality Plan, The Organization Chart, The Site Director, The Site Quality Assurance Manager, Responsibilities for Quality Control
 - Case Study
- ❖ **Project Quality Plans**
 - The Project Quality Plan (PQP), The Limitations of PQPs, The Detail Quality Plan (DQP)
- ❖ **Recap**

DAY THREE:

- ❖ **Construction Contractors**
 - Selecting the Construction Contractors, The Initial Site Meeting with each Construction Contractors, Site Quality Plan, Inspection & Test Plan
 - Procedures & Method Statements, Inspection & Test records, Construction Quality File, Inspection, Measuring & Test Equipment
 - Case Study
- ❖ **Construction-Engineering Interface**
 - Types & Origins of Engineering Documents, EPCM Contractor's Specifications & Drawings, Suppliers' Documentation, Construction Contractors' Specifications & Drawings, Engineering Standards & Codes of Practice
 - Document Control, Engineering Site Queries, 'As-Built' Drawings, Information Technology Infrastructure
 - Case Study
- ❖ **Recap**

DAY FOUR:

- ❖ **Material Management**
 - Sources of Material, Purchase Orders, Material Storage Facilities, Material Control Procedure, Incoming Inspection, Ongoing Inspection & Maintenance, Traceability, Spare Parts
 - Case Study
- ❖ **Nonconformities**

- What are Nonconformities & How do we Manage them? Resolution, Model Procedure, Few or Many Nonconformity Reports
- Case Study
- ❖ **Quality Audits**
 - Guidelines for Auditing, Including a Model Procedure, Typical Audit Questions
 - Case Study
- ❖ **Recap**

DAY FIVE:

- ❖ **Management Reviews & Completion Report**
 - Management Reviews on Site During Construction, Construction Completion Report
- ❖ **Construction Completion & Turnover**
 - Activity Phases on Site, Contractual Milestones, Responsibilities of Parties Present
 - Construction Completion Procedure, Procedure for Turnover to the Owner
 - Construction Completion & Turnover by Functional Systems
 - Case Study
- ❖ **Course Conclusion**
- ❖ **POST-TEST and EVALUATION**

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, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

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

Training Fees:

TBA 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 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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