COURSE OVERVIEW PM0268-3D
Quality Management in Engineering Projects

Course Title
Quality Management in Engineering Projects

Course Reference
PM0268-3D

Course Duration/Credits
Three days/1.8 CEUs/18 PDHs

Course Date/Venue

Session(s)	Date	Venue
1	May 26-28, 2025	Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
2	July 06-08, 2025	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE
3	September 08-10, 2025	Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
4	November 02-04, 2025	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

Course Description

This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview of project quality management plan, project quality plan, construction engineering, EPC projects, material management and project turnover. It covers the material, equipment, material and works, interested parties and project strategy; the contractual environment, quality control and quality assurance; and the ISO 9000 comprising of quality assurance, difficulties met and the rationale for formal quality management systems.

Further, this course will also discuss the certification of a quality management system including quality/occupational health and safety/environment; the on-site responsibilities and interfaces; the construction quality management and project quality plans; the construction contractors and construction-engineering interface; and the material management, material control procedure, incoming inspection, ongoing inspection and maintenance and traceability.

During this interactive course, participants will learn the nonconformities and how to manage them; the quality audits and guidelines for auditing including a model procedure; the management reviews and completion report on site during construction; the construction completion and turnover covering activity phases on site, contractual milestones and responsibilities of parties present; and the procedure for turnover to the owner, construction completion and turnover by functional systems.

Course Objectives

Upon the successful completion of this course, each participant 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
- Discuss construction and quality covering material, equipment, material and works, interested parties and project strategy
- Recognize contractual environment, quality control and quality assurance
- Explain ISO 9000 comprising of quality assurance, difficulties met and the rationale for formal quality management systems
- Interpret certification of a quality management system including quality/occupational health and safety/environment
- Recognize on-site responsibilities and interfaces as well as apply construction quality management and project quality plans
- Discuss construction contractors and construction-engineering interface
- Carryout material management, material control procedure, incoming inspection, ongoing inspection and maintenance and traceability
- Identify nonconformities and how to manage them as well as apply quality audits and guidelines for auditing including a model procedure
- Interpret management reviews and completion report on site during construction
- Illustrate construction completion and turnover covering activity phases on site, contractual milestones and responsibilities of parties present
- Employ procedure for turnover to the owner and construction completion and turnover by functional systems

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of project quality management including project quality plan, construction engineering, EPC projects, material management and project turnover for quality managers, quality engineer (QA/QC), project managers, project engineers, construction managers, construction engineers, site superintendents, supervisors and senior foremen.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **1.8 CEUs** (Continuing Education Units) or **18 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

Dr. Chris Le Roux, PhD, MSc, BSc, PMI-PMP, PMI-CAPM, PMI-ATP, is a **Senior Project & Management Consultant** with almost **50 years** of teaching, training and industrial experience. His expertise lies extensively in the areas of **Project & Contracts** Management Skills, **Project & Construction** Management, **Project** Planning, Scheduling & Control, **Project** Management, Project Delivery & Governance Framework, **Project Planning & Delegating**, **Risk, Budgeting & Cost Management** in Projects, **Project** Management Practices, **Project** Management Disciplines, **Project Risk** Management, **Risk** Identification Tools & Techniques, **Project** Life Cycle, **Project Stakeholder** & Governance, **Project Management** Processes, **Project Integration** Management, **Project** Management Plan, **Project Work** Monitoring & Control, **Project Scope** Management, **Project Time** Management, **Project Cost** Management, **Project Quality** Management, **Quality** Assurance, **Project Human Resource** Management, **Project Communications** Management, **Contract** Management, **Tender** Development, **Contract** Standards & Laws, **Dispute Resolution** & **Risk** Identification, Myers-Briggs Type Indicator (**MBTI**), **Organization** Development Consultation, Advanced Debriefing of **Emotional** Trauma, **Interpersonal Motivation**, **Model Based Interviewing**, **Leadership Orientation** Programme, **Leading People & Change**, Embracing Innovation Culture **Coaching & Motivation**, **Creative Thinking & Problem-Solving** Techniques, **Change** Management, **Negotiation** Skills, **Strategic Planning**, **Risk** Analysis & Risk Management, Global Diverse & Virtual Teams Operation, Exceeding **Customer** Expectations, **Corporate Governance** Best Practice, **Business Performance** Management & Improvement, Building Environment of **Trust & Commitment**, **Win-Win Negotiation** Strategies, **Quality Improvement & Resource** Optimization, Neuro Linguistic Programming (**NLP**), **Personal Resilience** Developing, Effective Role Modelling & Development, Managing Dynamic Work Environments, Organizational Development, **Career** Management, Situation & Behaviour Analysis, Interpersonal **Motivation** Skills, **Inventory** Management and **Financial** Administration. Further, he is also well-versed in Water Supply System Security, Vulnerability & Terrorism, Integrated Security Systems, Incident Threat Characterization & Analysis, Physical Security Systems, Security Crisis, Security Emergency Plan, Command & Control System, Preventive Actions and Situation Analysis. He was the **Psychologist** & **Project Manager** wherein he was responsible in the project management and private psychology practices.

During his career life, Dr. Le Roux has gained his academic and field experience through his various significant positions and dedication as the **Director**, **Medico Legal Assessor Psychologist**, **Training & Development General Manager**, **Project Manager**, **Account Manager**, **Commercial Sales Manager**, **Manager**, **Sales Engineer**, **Project Specialist**, **Psychology Practitioner**, **Senior HR Consultant**, **Senior Lecturer**, **Senior Consultant/Trainer**, **Business Consultant**, **Assistant Chief Education Specialist**, **ASI Coordinator**, **Part-time Lecturer/Trainer**, **PMP & Scrum Trainer**, **Assessor & Moderator**, **Team Leader**, **Departmental Head**, **Technical Instructor/Qualifying Technician**, **Apprentice Electrician: Signals** and **Part-Time Electrician** from various companies and universities such as the South African Railway (SAR), Department of Education & Culture, **ESKOM**, Logistic Technologies (Pty. Ltd), Human Development: Consulting Psychologies (HDCP) & IFS, Mincon, Eagle Support Africa, Sprout Consulting, UKZN, Grey Campus, Classis Seminars, CBM Training, just to name a few.

Dr. Le Roux has a **PhD** in **Commerce Major** in **Leadership** in **Performance & Change**, a **Master's** degree in **Human Resource Management**, a **Bachelor's** degree (with Honours) in **Industrial Psychology**, a National Higher Diploma and a National Technical Diploma in **Electrical & Mechanical Engineering**. Further, he is a **Certified Project Management Professional** (**PMI-PMP**), a **Certified Associate** in **Project Management** (**PMI-CAPM**), a **Certified Authorized Training Partners** (**PMI-ATP**), a **Certified Scrum Master Trainer** by the VMEdu, a **Certified Instructor/Trainer** and a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**). Moreover, he is a **Registered Industrial Psychologist** by the Health Professions Council of South Africa (HPCSA), a **Registered Educator** by the South African Council for Educators (SACE) and a **Registered Facilitator**, **Assessor & Moderator** with Education, Training and Development Practices (ETDP) SETA. He has further delivered numerous trainings, courses, seminars, conferences and workshops globally.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Fee

US$ 3,750 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Construction & Quality*** *Material, Equipment, Material & Works ● Interested Parties ● Project Strategy ● Contractual Environment ● Quality Control & Quality Assurance*
0930 – 0945	*Break*
0945 – 1100	***ISO 9000*** *Quality Assurance ● Difficulties Met ● The Rationale for Formal Quality Management Systems ● Certification of a Quality Management System ● Quality/Occupational Health & Safety/Environment*
1100 – 1215	***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*
1215 – 1230	*Break*
1230 – 1420	***Construction Quality Management*** *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*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Project Quality Plans*** *The Project Quality Plan (PQP) ● The Limitations of PQPs ● The Detail Quality Plan (DQP)*
0930 – 0945	*Break*
0945 – 1100	***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*
1100 – 1215	***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*
1215 – 1230	*Break*
1230 – 1420	***Material Management*** *Sources of Material ● Purchase Orders ● Material Storage Facilities ● Material Control Procedure ● Incoming Inspection, Ongoing Inspection & Maintenance ● Traceability ● Spare Parts ● Case Study*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

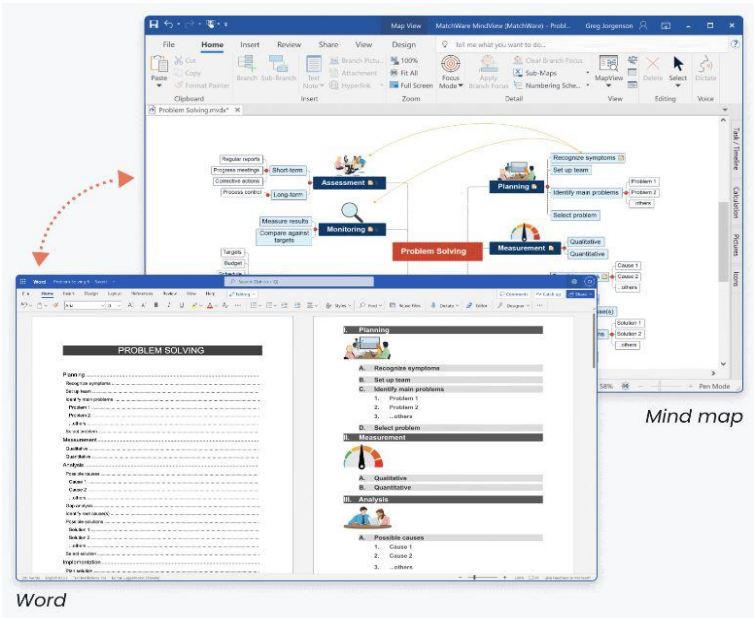
Day 3

0730 – 0930	***Nonconformities*** *What are Nonconformities & How do we Manage them? ● Resolution ● Model Procedure ● Few or Many Nonconformity Reports ● Case Study*
0930 – 0945	*Break*
0945 – 1100	***Quality Audits*** *Guidelines for Auditing, Including a Model Procedure ● Typical Audit Questions ● Case Study*
1100 – 1215	***Management Reviews & Completion Report*** *Management Reviews on Site During Construction ● Construction Completion Report*
1215 – 1230	*Break*
1230 – 1345	***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*
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using “MS Project” and “Mindview”.

“MS Project”



Mindview Software

Course Coordinator

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