COURSE OVERVIEW PM0365
Project Engineering Specialist

Course Title
Project Engineering Specialist



Course Date/Venue
November 29-December 03, 2026/Misk Meeting Room, Novotel Jeddah Tahlia Street, Jeddah, KSA

Course Reference
PM0365

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description







This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our software tools.

This comprehensive training course is designed to develop the technical, managerial and analytical competencies required for effective project engineering across industrial, engineering, construction, infrastructure, oil and gas, petrochemical and energy projects. The course provides participants with a structured understanding of the project engineering lifecycle, from project initiation, feasibility studies and engineering design through procurement, construction, commissioning, handover and project closeout.

Participants will gain practical knowledge of engineering project planning, multidisciplinary coordination, technical specifications, engineering deliverables, cost estimation, scheduling, risk management, quality assurance, contract administration and project performance monitoring. The course also emphasizes engineering problem-solving, change management, stakeholder communication and the application of industry standards, codes and best practices to ensure successful project execution.

Further, the course will also discuss the project engineering and project engineering specialist role; the project lifecycle and engineering project development, project feasibility studies and technical evaluation; the project scope definition and engineering requirements, engineering codes, standards and regulatory requirements; the project engineering organization, stakeholder management, engineering design management and design development; the multidisciplinary engineering coordination and integration, engineering drawings, specifications and technical documentation; the project planning, scheduling and engineering work packages; the engineering deliverables management and designing quality control; the digital engineering tools, project information management and cost estimation; and the engineering budget development.

During this interactive course, participants will learn the project cost control, financial performance monitoring, engineering procurement and technical purchasing processes; the vendor engineering and equipment technical management, engineering contracts and commercial management; the project risk management, engineering change control construction engineering and site execution management; the construction planning, resource management and productivity control; the quality assurance and quality control in engineering projects and health, safety and environmental management in project engineering; the technical problem-solving, engineering troubleshooting, project monitoring, reporting and performance improvement; the pre-commissioning and commissioning engineering management, project handover, documentation and closeout management; and the engineering leadership, communication and team coordination including advanced project engineering strategies and optimization.

Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:-

- Get certified as a *"Certified Project Engineering Specialist"*
- Define project engineering and the project engineering specialist role
- Carryout project lifecycle and engineering project development, project feasibility studies and technical evaluation
- Discuss project scope definition and engineering requirements as well as engineering codes, standards and regulatory requirements
- Apply project engineering organization and stakeholder management including engineering design management and design development
- Employ multidisciplinary engineering coordination and integration and illustrate engineering drawings, specifications and technical documentation
- Describe project planning, scheduling and engineering work packages and apply engineering deliverables management and design quality control
- Carryout digital engineering tools and project information management as well as project cost estimation and engineering budget development
- Implement project cost control, financial performance monitoring and engineering procurement and technical purchasing processes
- Apply vendor engineering and equipment technical management, engineering contracts and commercial management including project risk management and engineering change control
- Employ construction engineering and site execution management, construction planning, resource management and productivity control

- Implement quality assurance and quality control in engineering projects as well as health, safety and environmental management in project engineering
- Carryout technical problem-solving and engineering troubleshooting, project monitoring, reporting and performance improvement
- Apply pre-commissioning and commissioning engineering management, project handover, documentation and closeout management
- Carryout engineering leadership, communication and team coordination including advanced project engineering strategies and optimization

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 engineering for project engineers, project engineering specialists, senior engineers, engineering coordinators, project coordinators, discipline engineers, design engineers, construction engineers, planning engineers, technical supervisors, engineering managers and other professionals involved in engineering project planning, design coordination, procurement, construction, commissioning and project execution.

Training Methodology

Our courses employ an interactive, learner-centred methodology that integrates theoretical knowledge with practical application. The training is delivered through a suitable combination of some or all of the following methods, selected according to the course content and learning objectives:

- Instructor-led presentations and facilitated discussions
- Practical workshops and participant presentations
- Hands-on exercises and real-world case studies
- Equipment demonstrations and technical drawings
- Hardware- and software-based simulations
- Gamification & Role Play in soft-skills courses only
- Virtual Reality (VR) and Augmented Reality (AR)
- Instructional videos and other relevant training resources

This blended approach encourages active participation, strengthens practical skills and supports the effective application of acquired knowledge in the workplace.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

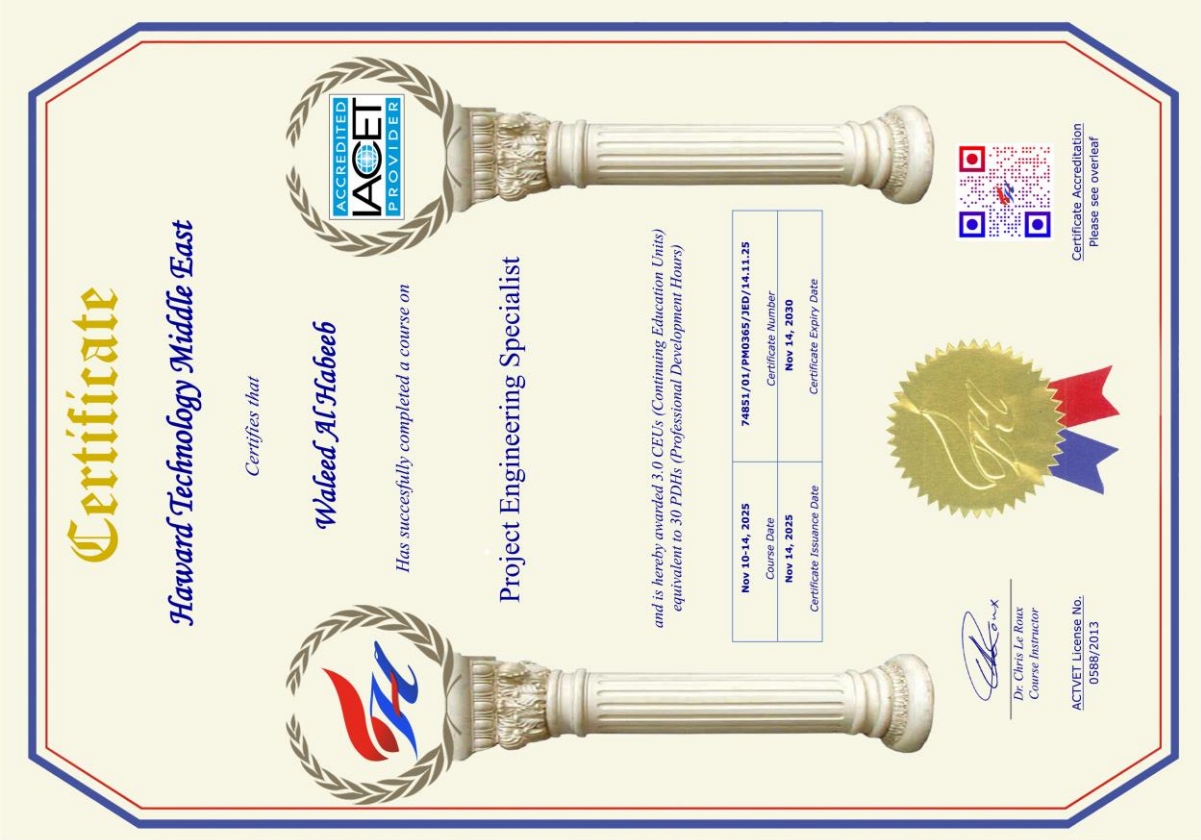
Course Certificate(s)

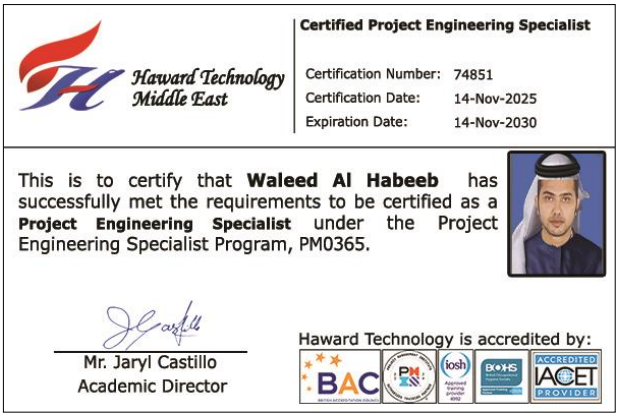
(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Successful candidate will be certified as a "*Certified Project Engineering Specialist*". Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-







(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.



Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-25

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
PM0365	Project Engineering Specialist	Nov 10-14, 2025	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Jaryl Castillo
Academic Director

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

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations

Haward's 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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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 **3.0 CEUs** (Continuing Education Units) or **30 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 Fee

US$ 7,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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, M.Com, B.Com (Hons), PMP, Industrial Psychologist (HPCSA Reg.), PMI-ATP Instructor PMI-PMP, PMI-CAPM Instructor is a **Senior Management Consultant & Project Management Professional** with over **30 years** of combined engineering, managerial, consulting, counseling, and international training experience across Africa, the Middle East, the Gulf region, and Europe. His expertise lies extensively in the areas of **Project & Contracts** Management Skills, **Project & Construction** Management, **Project** Planning, Scheduling, Cost Control, and Earned Value Management, **Project** Management (**Predictive**, **Agile**, and **Hybrid**), **PMO** setup and governance, Project Delivery & Governance Framework, **Project** Management Practices, **Project** Management Disciplines, **Risk** and **Contract** Management (including contract development, tendering, dispute resolution, and claims), **Risk** Identification Tools & Techniques, **Project** Life Cycle, **Stakeholder Management** and **Communication**, **Performance Coaching** and **Difficult Conversations**, **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, **Leadership Orientation** Programme, **Leadership & Team** Development, Psychology of **Leadership**, **Interpersonal Skills & Teamwork**, **Coaching & Mentoring**, **Innovation & Creativity**, **Leadership & Performance** Management, **Leadership Communication**, **Leadership Excellence** for Senior Management, **Supervisory**, **Leadership**, **Coaching & Mentoring**, **Leadership**, **Communications** & Interpersonal Skills, Administrative Leadership Skills, **Office Management & Administration** Skills, **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**, **Coaching & Motivation**, **Creative Thinking & Problem-Solving** Techniques, **Emotional Intelligence** and **Resilience**, **Presentation** Skills, **Communication & Interpersonal** Skills, Effective **Communication & Influencing** Skills, Effective **Business Writing Skills**, **Writing** Business Documents, **Business Writing** (Memo & Report Writing), Controlling Your **Time & Managing Stress**, **Crisis** Management and **Decision-Making Under Pressure**; and **Customer Experience**, **Service Excellence**, and **Negotiation Skills**, Strategic **Human Resources** Management, **Change** Management and **Organizational** Development, **Human Capital** and **Talent** Management (succession planning, performance management, competency frameworks, and behavioral assessment), **Strategic Planning** and **Execution**, Project **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 has also led or supported Training Needs Analyses **(TNA)**, large-scale capability development programs, and leadership pipelines for technical, operational, and graduate employees.

During his career life, Dr. Le Roux has gained his academic and field experience through his various significant positions and dedication as the **Training & Development General Manager**, **Departmental Head (Electrical)**, **Project Manager**, **Account Manager**, **Commercial Sales Manager**, **Manager**, **Sales Engineer**, **Project Specialist**, **Psychology Practitioner**, **Senior Consultant/Trainer**, **Business Consultant**, **Assistant Chief Education Specialist**, **ASI Coordinator**, **Part-time Lecturer/Trainer**, **PMP & Scrum Trainer**, **Assessor & Moderator**, **Team Leader**, **Departmental Head**, **Senior HR Consultant**, **Senior Lecturer / Academic Supervisor**, **Technical Instructor/Qualifying Technician**, **Apprentice Electrician: Signals**, **International Trainer**, 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 and CBM Training.

Dr. Le Roux has a **PhD** 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 **Qualified Electrical & Mechanical Engineering** from **Germiston College**, **South Africa**. Further, he is a **Certified Project Management Professional** (**PMP**), a **PMI Authorized Training Partner** (**ATP**) **Instructor**, a **Certified Associate** in **Project Management** (**PMI-CAPM**), 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.

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 workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: ***Sunday, 29th of November 2026***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to Project Engineering & the Project Engineering Specialist Role*** *Fundamentals, Principles & Objectives of Project Engineering • Roles, Responsibilities & Competencies of a Project Engineering Specialist • Project Engineering Versus Project Management Versus Design Engineering • Project Engineering Applications Across Industrial, Construction & Infrastructure Projects*
0930 – 0945	*Break*
0945 – 1030	***Project Lifecycle & Engineering Project Development*** *Project Initiation, Concept Development & Feasibility Assessment • Front-End Engineering Design (FEED) & Detailed Engineering Phases • Engineering, Procurement & Construction (EPC) Project Delivery Models • Project Execution, Commissioning, Handover & Closeout Requirements*
1030 – 1130	***Project Feasibility Studies & Technical Evaluation*** *Technical Feasibility Assessment & Engineering Project Justification • Preliminary Engineering Studies, Site Assessments & Design Considerations • Economic Feasibility, Cost-Benefit Analysis & Investment Evaluation • Project Alternatives Evaluation & Technical Decision-Making Criteria*
1130 – 1215	***Project Scope Definition & Engineering Requirements*** *Developing Project Scope Statements & Engineering Objectives • Establishing Project Design Basis, Requirements & Technical Specifications • Work Breakdown Structure (WBS) Development & Engineering Deliverables • Scope Boundaries, Assumptions, Constraints & Acceptance Criteria*
1215 – 1230	*Break*
1230 – 1330	***Engineering Codes, Standards & Regulatory Requirements*** *Overview of International Engineering Codes, Standards & Best Practices • Application of ISO, ASME, API, IEC, IEEE & Relevant Industry Standards • Regulatory Compliance, Engineering Permits & Approval Requirements • Engineering Design Verification, Compliance Reviews & Technical Audits*
1330 – 1420	***Project Engineering Organization & Stakeholder Management*** *Project Organizational Structures, Engineering Teams & Reporting Relationships • Roles of Project Owners, Consultants, Contractors & Engineering Disciplines • Stakeholder Identification, Communication Planning & Responsibility Assignment • Engineering Coordination Meetings, Reporting Protocols & Decision-Making Processes*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2: **Monday, 30th of November 2026**

0730 – 0830	***Engineering Design Management & Design Development*** *Engineering Design Processes from Conceptual to Detailed Design • Design Basis Memoranda, Design Criteria & Engineering Calculations • Design Reviews, Technical Verification & Design Approval Procedures • Design Optimization, Value Engineering & Constructability Considerations*
0830 – 0930	***Multidisciplinary Engineering Coordination & Integration*** *Coordination Among Civil, Structural, Mechanical, Electrical & Instrumentation Disciplines • Engineering Interfaces, Design Dependencies & Interdisciplinary Reviews • Identification & Resolution of Design Conflicts & Technical Discrepancies • Interface Management Registers, Coordination Matrices & Engineering Action Tracking*
0930 – 0945	*Break*
0945 – 1100	***Engineering Drawings, Specifications & Technical Documentation*** *Interpretation of Engineering Drawings, Layouts & General Arrangement Drawings • Process Flow Diagrams (PFDs), Piping & Instrumentation Diagrams (P&IDs) • Equipment Datasheets, Material Specifications & Technical Requisitions • Document Control, Drawing Revisions, Transmittals & As-Built Documentation*
1100 – 1215	***Project Planning, Scheduling & Engineering Work Packages*** *Engineering Project Planning Principles & Schedule Development • Activity Identification, Sequencing, Dependencies & Milestone Planning • Critical Path Method (CPM), Gantt Charts & Schedule Optimization • Engineering Work Package Preparation, Resource Allocation & Progress Tracking*
1215 – 1230	*Break*
1230 – 1330	***Engineering Deliverables Management & Design Quality Control*** *Engineering Deliverables Registers & Master Document Schedules • Deliverable Prioritization, Review Cycles & Approval Workflows • Design Quality Assurance, Technical Checking & Independent Verification • Engineering Progress Measurement, Document Status Reporting & Performance Indicators*
1330 – 1420	***Digital Engineering Tools & Project Information Management*** *Applications of AutoCAD, Revit, BIM & 3D Engineering Modeling Tools • Project Scheduling & Monitoring Using Primavera P6 & Microsoft Project • Engineering Document Management Systems & Digital Collaboration Platforms • Digital Engineering Data Integration, Information Accuracy & Configuration Control*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3: Tuesday, 01st of December 2026

0730 – 0830	***Project Cost Estimation & Engineering Budget Development*** *Principles of Engineering Cost Estimation & Cost Classification • Capital Expenditure (CAPEX), Operating Expenditure (OPEX) & Lifecycle Costs • Quantity Take-Offs, Material Estimates & Engineering Cost Breakdown Structures • Project Budget Development, Contingency Allocation & Cost Baseline Establishment*
0830 – 0930	***Project Cost Control & Financial Performance Monitoring*** *Engineering Cost Monitoring, Budget Tracking & Cost Reporting • Earned Value Management (EVM) & Project Performance Measurement • Cost Variance, Schedule Variance & Forecasting Project Completion Costs • Cost Optimization, Financial Risk Identification & Corrective Action Planning*
0930 – 0945	*Break*
0945 – 1100	***Engineering Procurement & Technical Purchasing Processes*** *Procurement Planning, Material Requisitions & Equipment Specifications • Technical Bid Evaluation, Vendor Qualification & Supplier Selection • Purchase Requisitions, Purchase Orders & Procurement Tracking • Long-Lead Equipment Management, Expediting & Delivery Coordination*
1100 – 1215	***Vendor Engineering & Equipment Technical Management*** *Vendor Document Requirements, Technical Submittals & Approval Procedures • Equipment Datasheet Reviews, Technical Clarifications & Design Compliance • Factory Acceptance Testing (FAT), Inspection & Equipment Certification • Vendor Coordination, Technical Deviations & Equipment Delivery Documentation*
1215 – 1230	*Break*
1230 – 1330	***Engineering Contracts & Commercial Management*** *Engineering, Procurement & Construction Contract Structures • Lump-Sum, Unit-Rate, Reimbursable & EPC Contracting Strategies • Contract Scope, Technical Obligations, Deliverables & Performance Requirements • Contract Variations, Claims, Change Orders & Commercial Risk Management*
1330 – 1420	***Project Risk Management & Engineering Change Control*** *Identification of Technical, Financial, Schedule & Procurement Risks • Qualitative & Quantitative Risk Assessment Techniques • Engineering Change Requests, Management of Change (MOC) & Impact Assessment • Risk Mitigation Strategies, Contingency Planning & Change Control Documentation*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4: Wednesday, 02nd of December 2026

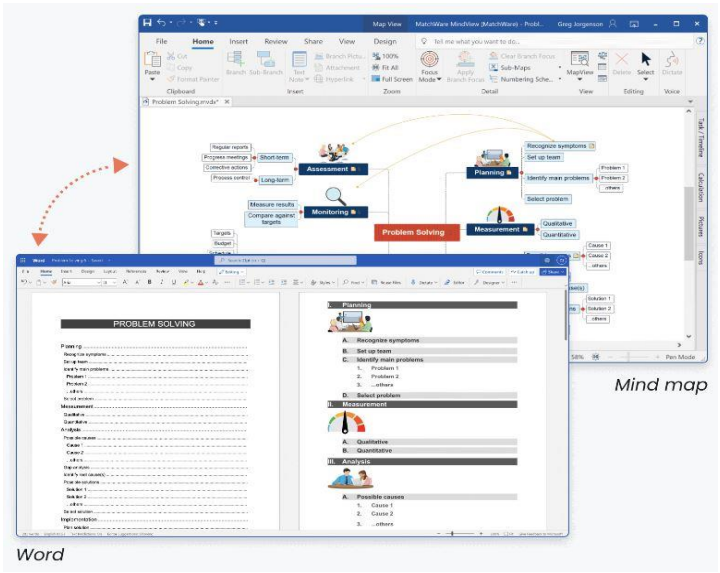
0730 – 0830	***Construction Engineering & Site Execution Management*** *Engineering Support During Construction & Installation Activities • Construction Work Packages, Method Statements & Execution Sequencing • Site Engineering Coordination, Field Technical Queries & Design Clarifications • Construction Progress Monitoring, Site Reporting & Execution Constraints*
0830 – 0930	***Construction Planning, Resource Management & Productivity Control*** *Construction Schedule Integration with Engineering & Procurement Activities • Workforce Planning, Equipment Utilization & Material Availability • Construction Productivity Measurement & Resource Optimization • Site Execution Delays, Bottleneck Analysis & Recovery Planning*
0930 – 0945	*Break*
0945 – 1100	***Quality Assurance & Quality Control in Engineering Projects*** *Quality Management Principles & ISO 9001-Based Project Quality Systems • Inspection & Test Plans (ITPs), Quality Control Procedures & Hold Points • Non-Conformance Reports (NCRs), Root Cause Analysis & Corrective Actions • Quality Audits, Material Traceability & Engineering Compliance Verification*
1100 – 1215	***Health, Safety & Environmental Management in Project Engineering*** *Project HSE Management Systems, Responsibilities & Compliance Requirements • Hazard Identification, Risk Assessment & Job Safety Analysis (JSA) • Permit-to-Work Systems, Lifting Operations & High-Risk Construction Activities • Environmental Impact Controls, Incident Prevention & Emergency Preparedness*
1215 – 1230	*Break*
1230 – 1330	***Technical Problem-Solving & Engineering Troubleshooting*** *Systematic Engineering Problem Identification & Technical Investigation • Root Cause Analysis Using 5 Whys, Fishbone Diagrams & Fault Tree Analysis • Resolution of Design Errors, Equipment Issues & Construction Non-Conformities • Engineering Decision-Making, Technical Recommendations & Lessons Learned*
1330 – 1420	***Project Monitoring, Reporting & Performance Improvement*** *Project Key Performance Indicators (KPIs) & Engineering Progress Measurement • Integrated Engineering, Procurement & Construction Progress Reporting • Schedule Slippage Analysis, Cost Overruns & Performance Recovery Strategies • Project Dashboards, Management Reports & Continuous Improvement Initiatives*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5: Thursday, 03rd of December 2026

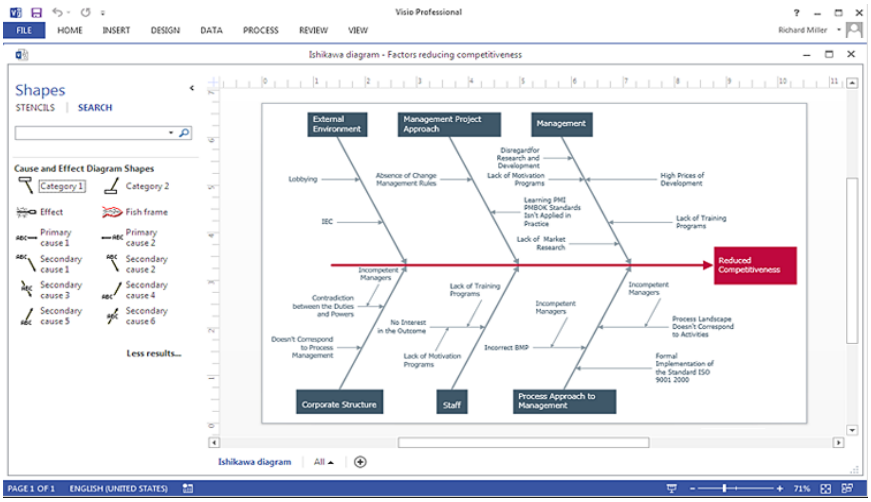
0730 – 0830	***Pre-Commissioning & Commissioning Engineering Management*** *Pre-Commissioning Planning, System Completion & Readiness Assessments • Mechanical Completion, Inspection, Testing & Punch List Management • Commissioning Procedures, Functional Testing & System Verification • Performance Testing, Operational Readiness & Commissioning Acceptance Criteria*
0830 – 0930	***Project Handover, Documentation & Closeout Management*** *Project Handover Requirements & Final Acceptance Procedures • As-Built Drawings, Operations Manuals & Maintenance Documentation • Final Engineering Dossiers, Equipment Records & Warranty Documentation • Project Closeout Reports, Lessons Learned & Post-Project Evaluations*
0930 – 0945	*Break*
0945 – 1100	***Engineering Leadership, Communication & Team Coordination*** *Leadership Responsibilities of Project Engineering Specialists • Technical Communication, Engineering Meetings & Stakeholder Engagement • Conflict Resolution, Negotiation & Multidisciplinary Team Collaboration • Engineering Team Performance, Accountability & Decision-Making Effectiveness*
1100 – 1215	***Advanced Project Engineering Strategies & Optimization*** *Value Engineering Techniques & Engineering Cost Optimization • Design for Constructability, Maintainability & Operational Reliability • Sustainability, Energy Efficiency & Lifecycle Engineering Considerations • Digital Transformation, Automation & Emerging Technologies in Project Engineering*
1215 – 1230	*Break*
1230 – 1245	***Integrated Project Engineering Case Studies & Practical Applications*** *Case Study: Engineering Project Scope Development & Feasibility Assessment • Practical Exercise: Engineering Schedule, Cost Estimate & Risk Register Preparation • Workshop: Multidisciplinary Design Coordination & Technical Problem Resolution • Simulation: Engineering Change Management, Project Recovery & Stakeholder Reporting*
1245 – 1300	***Project Engineering Best Practices*** *Review of Project Engineering Best Practices Across the Project Lifecycle • Evaluation of Engineering Performance, Technical Compliance & Project Outcomes • Development of Individual Action Plans for Project Engineering Improvement*
1300 – 1315	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1315 – 1415	***COMPETENCY EXAM***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Software Tools Demonstration

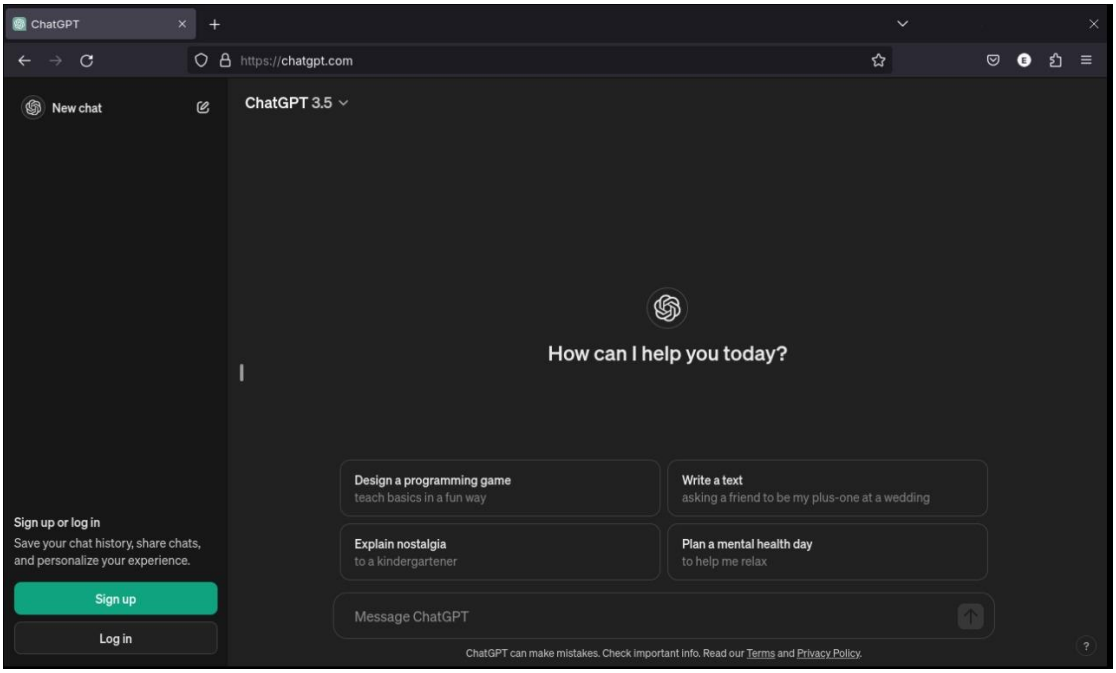
Practical sessions will be demonstrated through software tools during the course for delegates. Delegates will have an opportunity to understand the exercises using the "Mindview Software", "Visio Software", "ChatGPT" and "PMI Infinity".



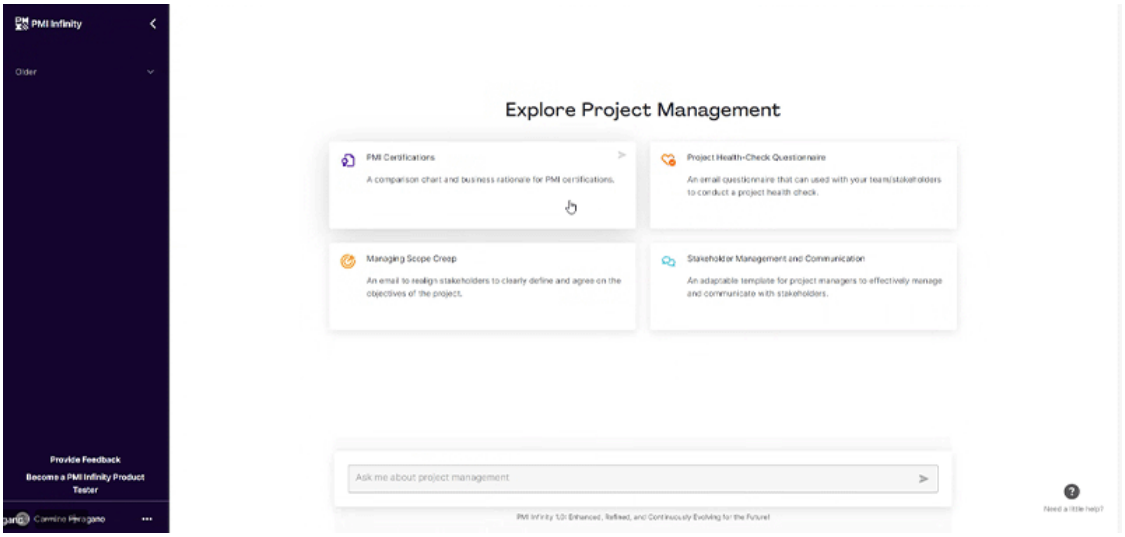
Mindview Software



Visio Software



ChatGPT Software



PMI Infinity

Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org