

COURSE OVERVIEW PM0090
Advanced Project & Construction Management

Course Title

Advanced Project & Construction Management

Course Date/Venue

August 30-September 03, 2026/Meeting Room F,
Centro Corniche Al Khobar by Rotana, Al Khobar,
KSA

Course Reference

PM0090

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 course is designed to provide participants with a detailed and up-to-date overview of Advanced Project and Construction Management. It covers the principles and frameworks of advanced project management and project lifecycle phases; the key differences between traditional and agile project management; the construction project environment and stakeholders including feasibility studies and project justification; the scope definition and work breakdown structure (WBS); and the project scheduling techniques and project initiation documentation.



Further, the course will also discuss the construction cost estimating and budgeting, earned value management (EVM) and construction quality management; the advanced procurement and contracting strategies including vendor and material management; the value engineering and constructability review, construction execution planning and site management and supervision; the health, safety and environmental management (HSE); and the construction productivity, performance optimization and change and claims management.



During this interactive course, participants will learn the progress reporting and communication, advanced project risk management and interface management in complex projects; the integrated project controls, construction information and document control; the digital tools and technologies in construction and interfaces with commissioning and operations; the leadership and team management in construction, commissioning and start-up planning and final project handover and acceptance; the site demobilization and resource release, final contract closure, financial reconciliation and archiving project records; and the performance metrics, stakeholder satisfaction surveys and post-implementation reviews (PIR).

Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain advanced knowledge on various functions, techniques, procedures and requirements of project and construction management in line with the PMI standards
- Discuss the principles of advanced project management, project management frameworks, project lifecycle phases and gates and the key differences between traditional and agile project management
- Recognize construction project environment and stakeholders including feasibility studies and project justification
- Review scope definition and work breakdown structure (WBS) and apply project scheduling techniques and project initiation documentation
- Carryout construction cost estimating and budgeting, earned value management (EVM) and construction quality management
- Employ advanced procurement and contracting strategies including vendor and material management
- Apply value engineering and constructability review, construction execution planning and site management and supervision
- Discuss health, safety and environmental management (HSE) and apply construction productivity, performance optimization and change and claims management
- Implement progress reporting and communication, advanced project risk management and interface management in complex projects
- Carryout integrated project controls, construction information and document control as well as discuss digital tools and technologies in construction and interfaces with commissioning and operations
- Apply leadership and team management in construction, commissioning and start-up planning and final project handover and acceptance
- Employ site demobilization and resource release, final contract closure, financial reconciliation and archiving project records
- Apply performance metrics, stakeholder satisfaction surveys and post-implementation reviews (PIR)

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 advanced overview of project and construction management for managers, engineers and supervisors who already have knowledge of project management techniques and tools as well as for the managers who are directly responsible for projects and need to manage the task professionally. The course is also beneficial for those who want to know about pitfalls in their environments when managing project management consultants.

PMI Recognition of Haward Courses

The Project Management Institute (**PMI**) recognizes Haward’s Certificates and Continuing Education Units (CEUs).

The recognition and acceptance of our PDUs/CEUs fall under Categories E, F and G of PMI’s “Professional Education” section at the PMP Application. Hence, what the delegates simply need to do is to complete this section as part of the PMP Application and submit it to PMI upon the receipt of Haward’s certificates and ANSI/IACET’s CEUs. PMI will automatically accept the delegates with 30 Contract Honors as a fulfillment of the required Professional Education.

Haward Technology, being the first **Authorized Provider** of the International Association for Continuing Education & Training (**IACET-USA**) in the Middle East, is authorized to award ANSI/IACET **CEUs** that are automatically accepted and recognized by the Project Management Institute (**PMI**).

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.
training methodology before or during the course for technical reasons.

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 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. 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 * CEUs * Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology *

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
PM0090	Advanced Project & Construction Management	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

BAC AWS iosh TQM UKAS ISO 9001:2015 Certified IACET PROVIDER

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

* Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology *

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.

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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\$ 5,500 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 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.

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: Sunday, 30th of August 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Principles of Advanced Project Management Overview of Project Management Frameworks (PMI, IPMA, PRINCE2) • Project Lifecycle Phases and Gates • Key Differences Between Traditional and Agile Project Management • Organizational Maturity in Project Execution
0930 – 0945	Break
0945 – 1030	Construction Project Environment & Stakeholders Identifying Internal and External Stakeholders • Defining Roles and Responsibilities in EPC Projects • Managing Stakeholder Expectations and Influence • Techniques for Stakeholder Communication and Engagement
1030 – 1130	Feasibility Studies & Project Justification Technical and Economic Feasibility Assessments • Market Demand and Competitive Analysis • Social and Environmental Impact Evaluations • Creating a Compelling Business Case
1130 – 1215	Scope Definition & Work Breakdown Structure (WBS) Importance of Scope Management in Construction • Developing the WBS: Best Practices • Integration with Project Schedules and Budgets • Controlling Scope Changes and Creep
1215 – 1230	Break
1230 – 1330	Project Scheduling Techniques Critical Path Method (CPM) and Precedence Diagramming Method (PDM) • Gantt Charts and Milestone Charts • Schedule Compression Techniques: Crashing and Fast-Tracking • Use of Software Tools (Primavera P6, MS Project)
1330 – 1420	Project Initiation Documentation Project Charter Development • Assumptions and Constraints Logging • Initial Risk Register Creation • Alignment with Corporate Strategy
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, 31st of August 2026

0730 – 0830	Construction Cost Estimating & Budgeting Classes of Estimates and Accuracy Ranges • Bottom-Up versus Top-Down Estimating • Contingency and Escalation Allowances • Cash Flow Projections and S-Curves
0830 – 0930	Earned Value Management (EVM) Key Performance Indicators: CPI, SPI, EV, AC, PV • Variance Analysis and Trend Forecasting • Implementing an EVM System in Construction • Performance Forecasting (EAC, ETC)
0930 – 0945	Break



0945 – 1100	Construction Quality Management Quality Assurance versus Quality Control • Developing Inspection and Test Plans (ITPs) • Non-Conformance Management and Corrective Actions • Total Quality Management (TQM) Applications
1100 – 1215	Advanced Procurement & Contracting Strategies Selecting Appropriate Contract Types (Lump Sum, EPC, Reimbursable) • Prequalification and Bid Evaluation Techniques • Managing Subcontractors and Suppliers • Dispute Resolution and Claims Prevention
1215 – 1230	Break
1230 – 1330	Vendor & Material Management Procurement Scheduling and Lead Time Analysis • Supplier Performance Metrics • Material Tracking and Logistics Coordination • Construction Inventory Controls
1330 – 1420	Value Engineering & Constructability Review VE Methodology and Workshop Structure • Cost-Benefit Analysis and Functional Performance • Constructability Analysis Tools • Integration into Design and Execution Stages
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 September 2026

0730 – 0830	Construction Execution Planning Mobilization and Site Preparation Strategies • Resource Allocation (Labor, Materials, Equipment) • Phased and Modular Execution Approaches • Managing Construction Packages and Work Fronts
0830 – 0930	Site Management & Supervision Daily Site Control Procedures • Monitoring Progress versus Schedule • Managing Construction Site Documentation • Coordination Between Disciplines and Trades
0930 – 0945	Break
0945 – 1100	Health, Safety & Environmental Management (HSE) Regulatory Compliance and Site-Specific HSE Plans • Risk Assessments and Safety Audits • Permit to Work Systems and Toolbox Talks • Environmental Monitoring and Impact Mitigation
1100 – 1215	Construction Productivity & Performance Optimization Measuring and Benchmarking Productivity • Lean Construction Principles • Use of KPIs and Dashboards for Performance Tracking • Labor Management and Timekeeping Systems
1215 – 1230	Break
1230 – 1330	Change & Claims Management Types of Project Changes and Causes • Change Request Workflows and Approvals • Delay Analysis Methods (e.g., Impacted As-Planned, Windows Analysis) • Claims Avoidance and Documentation Strategies



1330 – 1420	Progress Reporting & Communication Weekly and Monthly Progress Report Structure • Dashboard and Visual Tools • Stakeholder-Specific Reporting Formats • Progress Review Meetings and Coordination
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 September 2026

0730 – 0830	Advanced Project Risk Management Risk Identification and Categorization (Technical, Commercial, External) • Qualitative and Quantitative Analysis (Monte Carlo Simulation) • Risk Response Planning (Avoid, Transfer, Mitigate, Accept) • Creating and Managing the Risk Register
0830 – 0930	Interface Management in Complex Projects Types of Interfaces (Mechanical, Contractual, Operational) • Interface Register Development and Control • Communication and Approval Protocols • Integration of Interface Management in Schedule
0930 – 0945	Break
0945 – 1100	Integrated Project Controls Scope, Cost, and Schedule Integration • Baseline Management and Control Techniques • Monitoring and Adjusting Integrated Performance • Forecasting Completion and Variance Analysis
1100 – 1215	Construction Information & Document Control Document Management Systems (DMS) • Engineering Deliverables Tracking • Revision Control and Transmittal Processes • BIM Integration with Document Control
1215 – 1230	Break
1230 – 1330	Digital Tools & Technologies in Construction Digital Twins and Construction Modeling • Use of Drones and Sensors for Monitoring • Construction Management Platforms (Procore, Aconex) • Data-Driven Decision-Making
1330 – 1420	Interfaces with Commissioning & Operations Preparing Systems for Handover • Construction-to-Commissioning Transitions • Turnover Package Development • Stakeholder Walk-Downs and Punch List Tracking
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

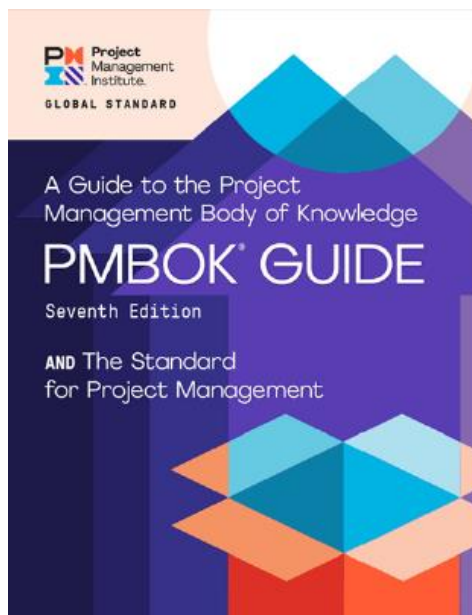
Day 5: Thursday, 03rd of September 2026

0730 – 0830	Leadership & Team Management in Construction Leading Multicultural and Cross-Functional Teams • Situational Leadership Styles • Conflict Resolution and Team Motivation • Delegation and Accountability Management
0830 – 0930	Commissioning & Start-Up Planning System Completion and Pre-Commissioning Checklists • Integrated Commissioning Planning • Energization and System Turnover • First Oil/Steam/Power Production Readiness

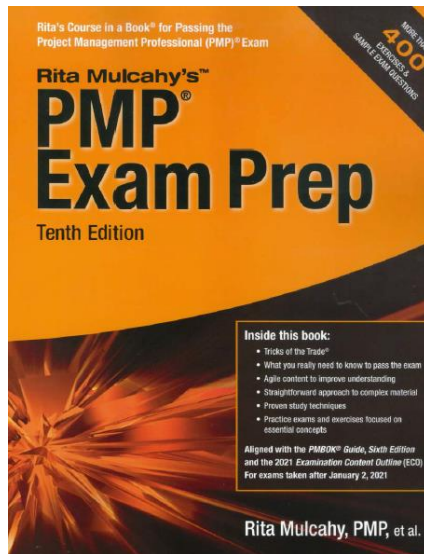
0930 – 0945	Break
0945 – 1030	Final Project Handover & Acceptance Handover Planning and Stakeholder Alignment • As-Built Documentation and Operation Manuals • Client Acceptance Criteria and Walk-Throughs • Lessons Learned Documentation
1030 – 1200	Project Close-Out & Demobilization Site Demobilization and Resource Release • Final Contract Closure • Financial Reconciliation • Archiving Project Records
1200 – 1215	Break
1215 – 1300	Post-Project Evaluation & Lessons Learned Performance Metrics (Cost, Time, Quality, Safety) • Stakeholder Satisfaction Surveys • Post-Implementation Reviews (PIR) • Capturing and Sharing Knowledge
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

Book(s)

As part of the course kit, the following e-book will be given to all participants:-



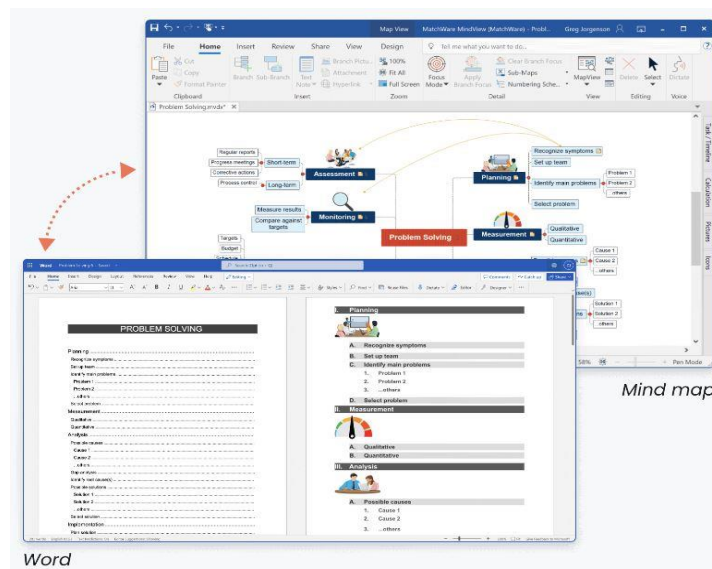
Title: A Guide to the Project Management Body of Knowledge (PMBOK Guide)-
ISBN: 978-1628256642
Author: Project Management Institute
Publisher: Project Management Institute



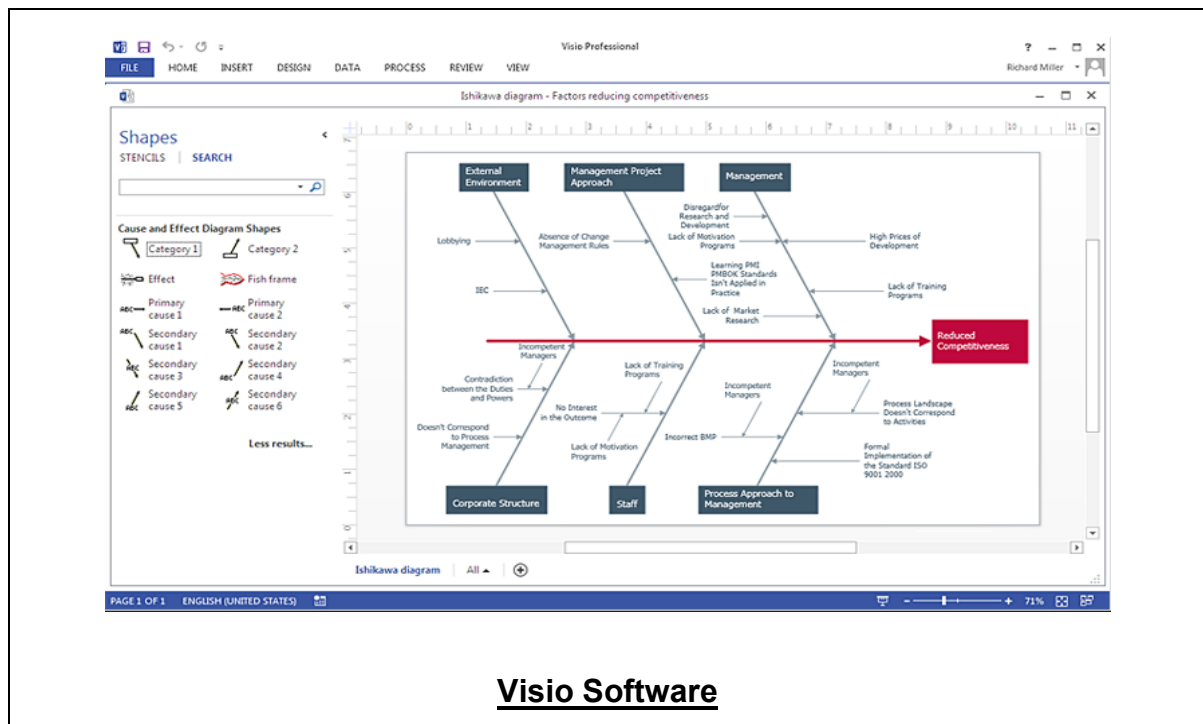
Title : Rita Mulcahy's PMP Exam Prep,
ISBN : 978-1932735659
Author : Rita Mulcahy
Publisher: Rmc Pubns Inc

Software Tools Demonstration

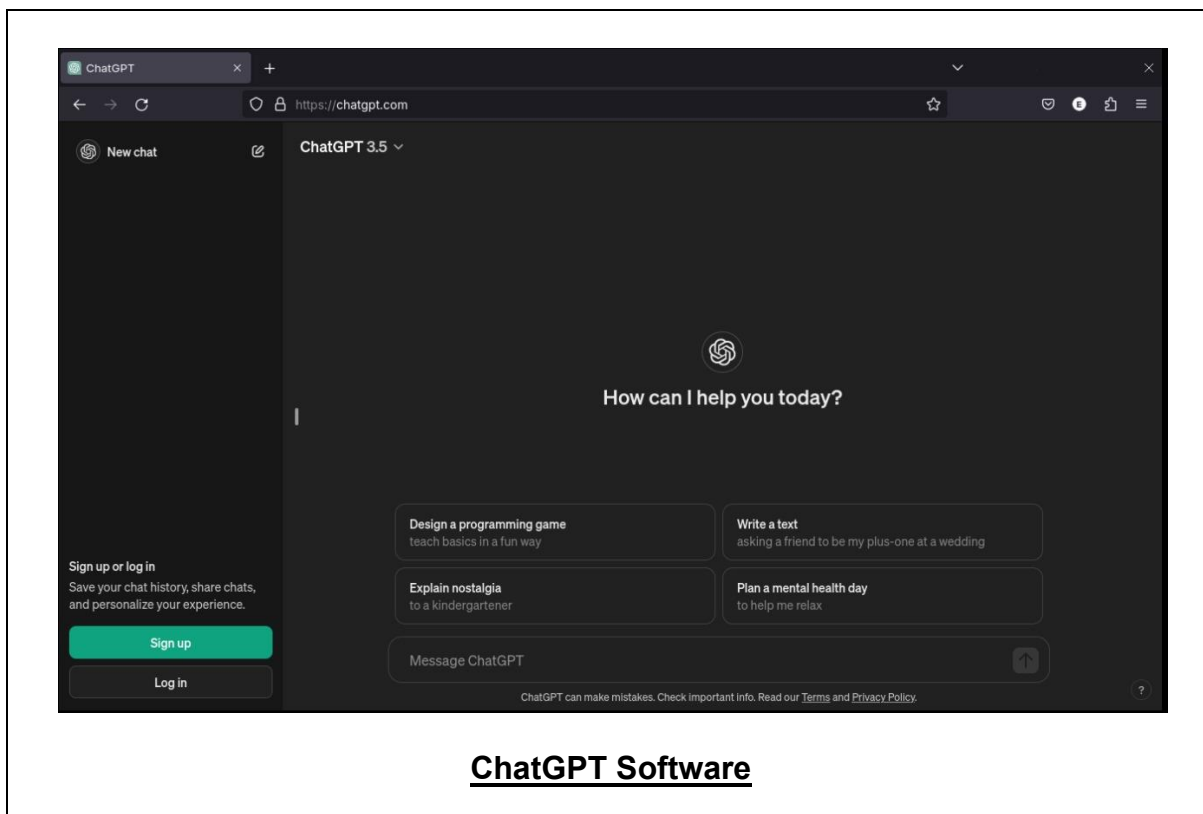
Practical sessions will be demonstrated through software tools during the course for delegates. Delegates will have an opportunity to understand the exercises using the “Mindview Software”, “Visio Software”, “ChatGPT” and “PMI Infinity”.



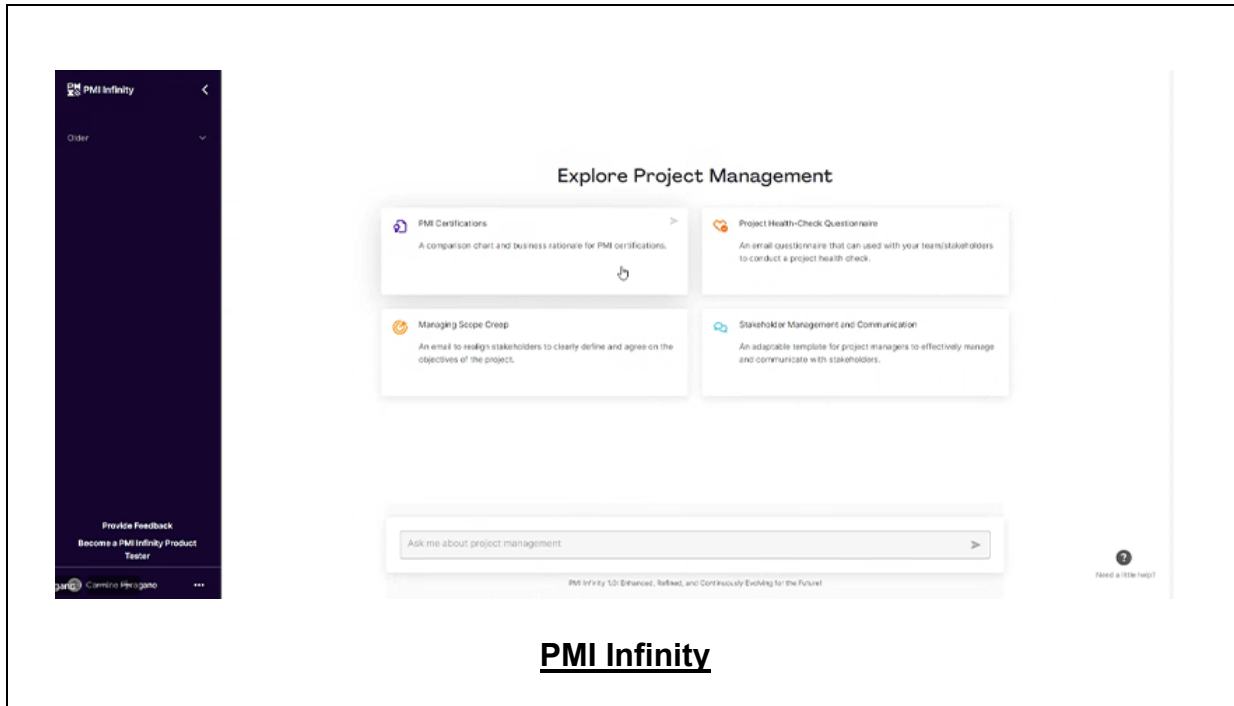
Mindview Software



Visio Software



ChatGPT Software



PMI Infinity

Course Coordinator

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