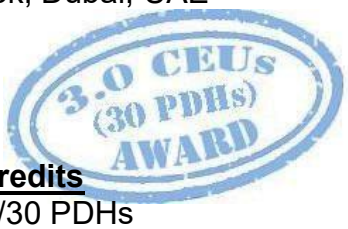
COURSE OVERVIEW PM0090
Construction Project Management

Course Title
Construction Project Management

Course Date/Venue
July 20-24, 2025/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

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 state-of-the-art simulators.

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

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.

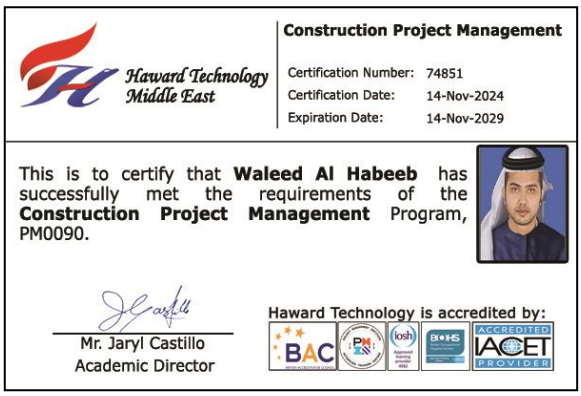
Course Certificate(s)

(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. 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-24

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
PM0090	Construction Project Management	Nov 10-14, 2024	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$ 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, 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, Techniques for **Coaching & Mentoring**, Strategies for Setting Annual Goals, **Monitoring Progress & Evaluation Performance**, **Emotional Intelligence**, **Presentation** Skills, **Communication & Interpersonal** Skills, Effective **Communication & Influencing** Skills, Effective **Business Writing Skills**, **Writing** Business Documents, **Business Writing** (Memo & Report Writing), **Leadership & Team Building**, Psychology of **Leadership**, **Interpersonal Skills & Teamwork**, **Coaching & Mentoring**, **Innovation & Creativity**, **Office Management & Administration** Skills, Controlling Your **Time & Managing Stress**, **Crisis** Management, Strategic **Human Resources** Management, **Change** Management, **Negotiation** Skills, **Strategic Planning**, **Risk** Analysis & Risk 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.

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, 20th of July 2025***

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, 21st of July 2025***

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, 22nd of July 2025***

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, 23rd of July 2025

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*

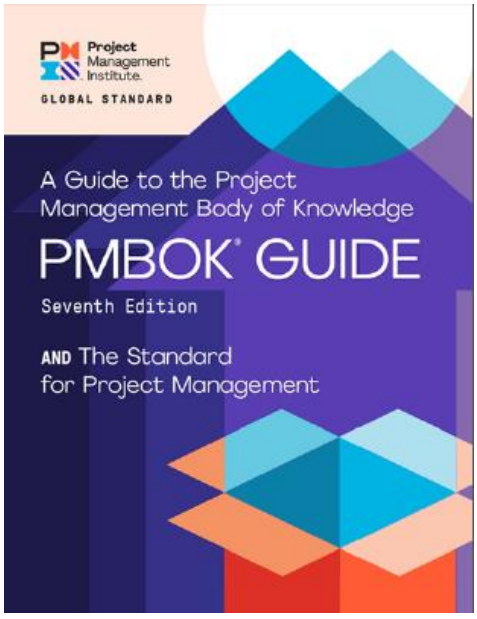
Day 5: Thursday, 24th of July 2025

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*

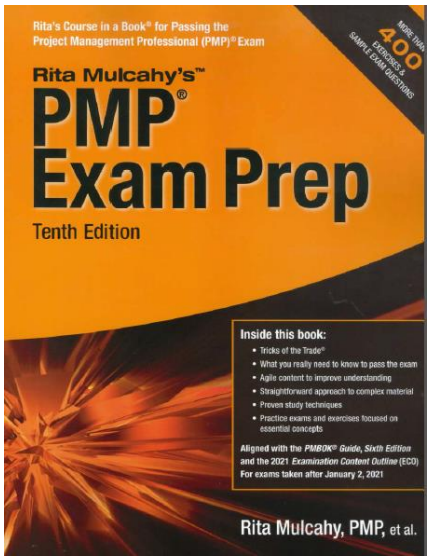
0930 – 0945	*Break*
0945 – 1030	***Final Project Handover & Acceptance*** *Handover Planning and Stakeholder Alignment • As-Built Documentation and Operation Manuals • Client Acceptance Criteria and Walk-Throughs • Lessons Learned Documentation*
1030 – 1230	***Project Close-Out & Demobilization*** *Site Demobilization and Resource Release • Final Contract Closure • Financial Reconciliation • Archiving Project Records*
1230 – 1245	*Break*
1245 – 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:-



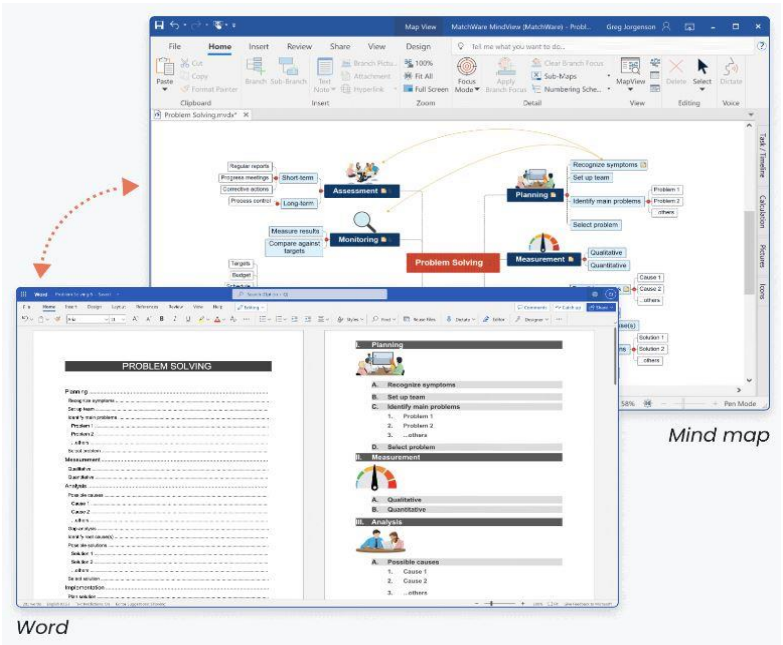
Title: A Guide to the Project Management Body of Knowledge (PMBOK Guide)-
ISBN: 978-1628256642
Author: Project Management Institute
Publisher: Project Management Institute



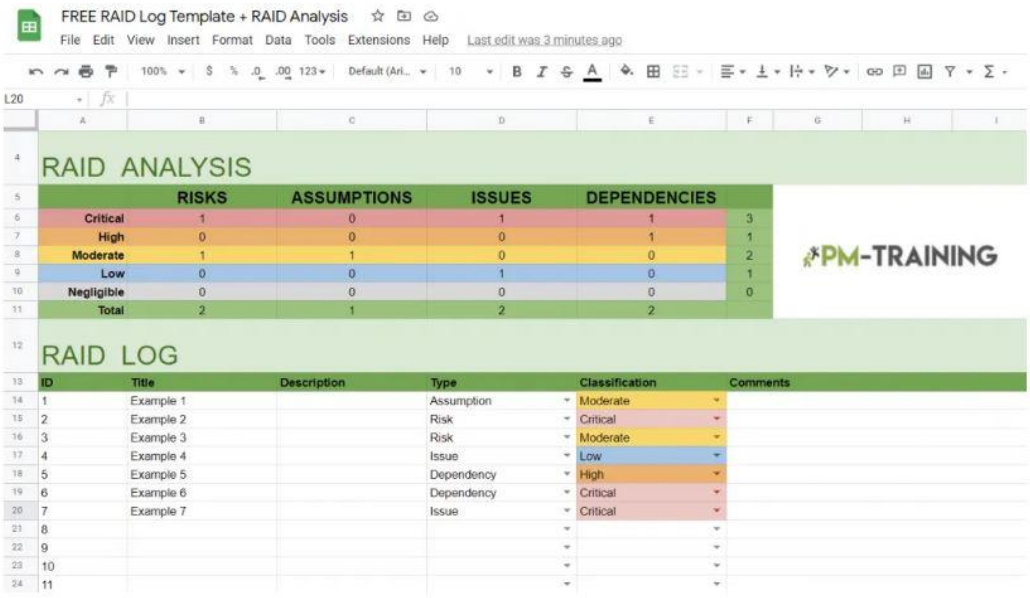
Title : Rita Mulcahy's PMP Exam Prep,
ISBN : 978-1932735659
Author : Rita Mulcahy
Publisher: Rmc Pubns Inc

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 "Mindview Software", "Raidlog Simulator" and "MS Excel application.



Mindview Software



Raidlog Simulator

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