

COURSE OVERVIEW PM0436 **Value Engineering**

Course Title

Value Engineering

Course Date/Venue

October 18-22, 2026/TBA Meeting Room, Centro Corniche Al Khobar by Rotana, Al Khobar, KSA or, TBA Meeting Room, Holiday Inn Corniche, Riyadh, KSA

Course Reference

PM0436

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 an overview of value engineering. It covers the value engineering (VE), fundamentals of value and function and phases of the value engineering job plan; the cost breakdown techniques, function worth, unnecessary costs and cost-to-function ratios; the VE in financial and infrastructure projects, function analysis system technique (FAST) and in-depth functional analysis; creating fast diagrams for real projects; the creativity in value engineering and creative phase techniques; and evaluating VE ideas and feasibility analysis, risk identification and stakeholder acceptance.



Further, the course will also discuss the application of VE to enhance service value; the customer-centric improvements and banking process optimization; the evaluation phase, lifecycle costing, value indexing and developing phase and recommendations; the proper reporting and documenting in VE and integrating VE into project management; building an effective VE team and facilitating a VE workshop; and the tools and techniques for value engineering.



During this interactive course, participants will learn the VE in procurement and vendor selection, information management, VE databases and software tools for VE planning; measuring VE success and KPIs by value index tracking, implementation metrics, cost avoidance versus savings and time and quality metrics; and the VE in bank-wide initiatives covering process optimization, customer service enhancement, policy review through VE and digital transformation cases.

Course Objectives/Outcomes & Benefits for the Participants

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

- Get a Certificate in Value Engineering from Haward Technology
- Discuss the value engineering (VE), fundamentals of value and function and phases of the value engineering job plan
- Carryout cost breakdown techniques, determine function worth and identify unnecessary costs and cost-to-function ratios
- Apply VE in financial and infrastructure projects, function analysis system technique (FAST) and in-depth functional analysis
- Create fast diagrams for real projects and apply creativity in value engineering and creative phase techniques
- Evaluate VE ideas and apply feasibility analysis, risk identification and stakeholder acceptance
- Apply VE to enhance service value and describe customer-centric improvements and banking process optimization
- Illustrate evaluation phase, lifecycle costing, value indexing and develop phase and recommendations
- Implement proper reporting and documenting in VE and integrate VE into project management
- Build an effective VE team, facilitate a VE workshop and identify tools and techniques for value engineering
- Employ VE in procurement and vendor selection, information management and VE databases and software tools for VE planning
- Measure VE success and KPIs by value index tracking, implementation metrics, cost avoidance versus savings and time and quality metrics
- Implement VE in bank-wide initiatives covering process optimization, customer service enhancement, policy review through VE and digital transformation cases

Who Should Attend

This course provides an overview of all significant aspects and considerations of value engineering for project managers, project engineers, project coordinators, estimation engineers, cost engineers, project accountants as well as those who are responsible for decision-making in projects, engineering, maintenance and contracts departments.



Course Fee

Al Khobar	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.
Riyadh	US\$ 6,000 per Delegate + VAT . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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 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-22
HTME No. 74851
Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
PM0436-IH	Value Engineering	November 10-14, 2022	32.5	3.25

Total No. of CEU's Earned as of TOR Issuance Date **3.25**

TRUE COPY

Jaryl Castillo
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 800, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 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 1-2013 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 ASN API ILM IACET PROVIDER API

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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 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. 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.**

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 (HDGP) & 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.



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 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, 18th of October 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Overview of Value Engineering (VE) Definition of VE • Historical Development • Importance in Cost Optimization • Common Misconceptions
0930 – 0945	Break
0945 – 1030	Fundamentals of Value & Function Understanding “Value” • Function Analysis Basics • Types of Functions • Cost Versus Worth
1030 – 1130	Phases of the Value Engineering Job Plan Information Phase • Functional Analysis Phase • Creative Phase • Evaluation & Development Phase
1130 – 1215	Cost Analysis & Worth Estimation Cost Breakdown Techniques • Determining Function Worth • Identifying Unnecessary Costs • Cost-to-Function Ratios
1215 – 1230	Break
1230 – 1330	Application of VE in Financial & Infrastructure Projects VE for Banking Facilities • Project Financing Models • Stakeholder Expectations • ROI & Lifecycle Considerations



1330 – 1420	Basics of Function Analysis System Technique (FAST) <i>Purpose of FAST Diagrams • How to Construct a FAST Diagram • Case Study Introduction • Financial Project Application</i>
1420 – 1430	Recap <i>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</i>
1430	<i>Lunch & End of Day One</i>

Day 2: Monday, 19th of October 2026

0730 – 0830	In-Depth Functional Analysis <i>Primary & Secondary Functions • Function Logic & Relationships • Applying the “How-Why” Logic • Practice Exercise</i>
0830 – 0930	Creating FAST Diagrams for Real Projects <i>Steps in Developing FAST • Logical Sequencing • Using Software Tools • Reviewing VE Case Studies</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Creativity in Value Engineering <i>Barriers to Creativity • Divergent Thinking Methods • Brainstorming Techniques • Encouraging Team Innovation</i>
1100 – 1215	Creative Phase Techniques <i>SCAMPER Model • Attribute Listing • Reverse Thinking • Group Creativity Workshops</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Selecting Best Alternatives <i>Evaluating VE Ideas • Feasibility Analysis • Risk Identification • Stakeholder Acceptance</i>
1330 – 1420	Application to Financial System Improvement <i>VE in IT & Financial Software Projects • Enhancing Service Value • Customer-Centric Improvements • Banking Process Optimization</i>
1420 – 1430	Recap <i>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</i>
1430	<i>Lunch & End of Day Two</i>

Day 3: Tuesday, 20th of October 2026

0730 – 0830	Evaluation Phase Overview <i>Evaluation Criteria • Scoring & Ranking Systems • Risk versus Value Charts • Impact versus Cost Matrix</i>
0830 – 0930	Lifecycle Costing & Value Indexing <i>Total Cost of Ownership (TCO) • Net Present Value (NPV) • VE Value Index Formula • Prioritization Matrices</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Development Phase & Recommendations <i>Developing Proposals • Cost Models • Technical Feasibility Studies • Management Presentation Techniques</i>
1100 – 1215	Reporting & Documentation in VE <i>VE Report Structure • Summary of Alternatives • Functional Matrix • Cost Saving Documentation</i>
1215 – 1230	<i>Break</i>



1230 – 1330	Integrating VE Into Project Management <i>Linking with Project Stages • PMO & VE Integration • Timeline & Budget Impact • Communication with Stakeholders</i>
1330 – 1420	Case Study: VE Applied in Public Infrastructure Finance <i>Real-World Banking Sector Case • Analyzing Decisions • Before versus After Results • Lessons Learned</i>
1420 – 1430	Recap <i>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</i>
1430	Lunch & End of Day Three

Day 4: Wednesday, 21st of October 2026

0730 – 0830	Building an Effective VE Team <i>Roles & Responsibilities • Selecting Team Members • Technical & Creative Balance • Multidisciplinary Integration</i>
0830 – 0930	Facilitating a VE Workshop <i>Stages of Workshop Facilitation • Managing Group Dynamics • Encouraging Contribution • Time Management</i>
0930 – 0945	Break
0945 – 1100	Tools & Techniques for Value Engineering <i>Cost-Worth Matrix • Pareto Analysis • SWOT Analysis • Root Cause Analysis</i>
1100 – 1215	VE in Procurement & Vendor Selection <i>Value-Based Procurement • VE in RFP Review • Total Cost versus Initial Cost • Vendor Evaluation</i>
1215 – 1230	Break
1230 – 1330	Information Management & VE Databases <i>Capturing Historical Data • Creating a VE Knowledge Base • Benchmarking • Document Control</i>
1330 – 1420	Software Tools for VE Planning <i>MindView for Planning • Mind Mapping Tools • VE Templates • Visio for Processes and Procedures • AI for Workload Efficiency</i>
1420 – 1430	Recap <i>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</i>
1430	Lunch & End of Day Four

Day 5: Thursday, 22nd of October 2026

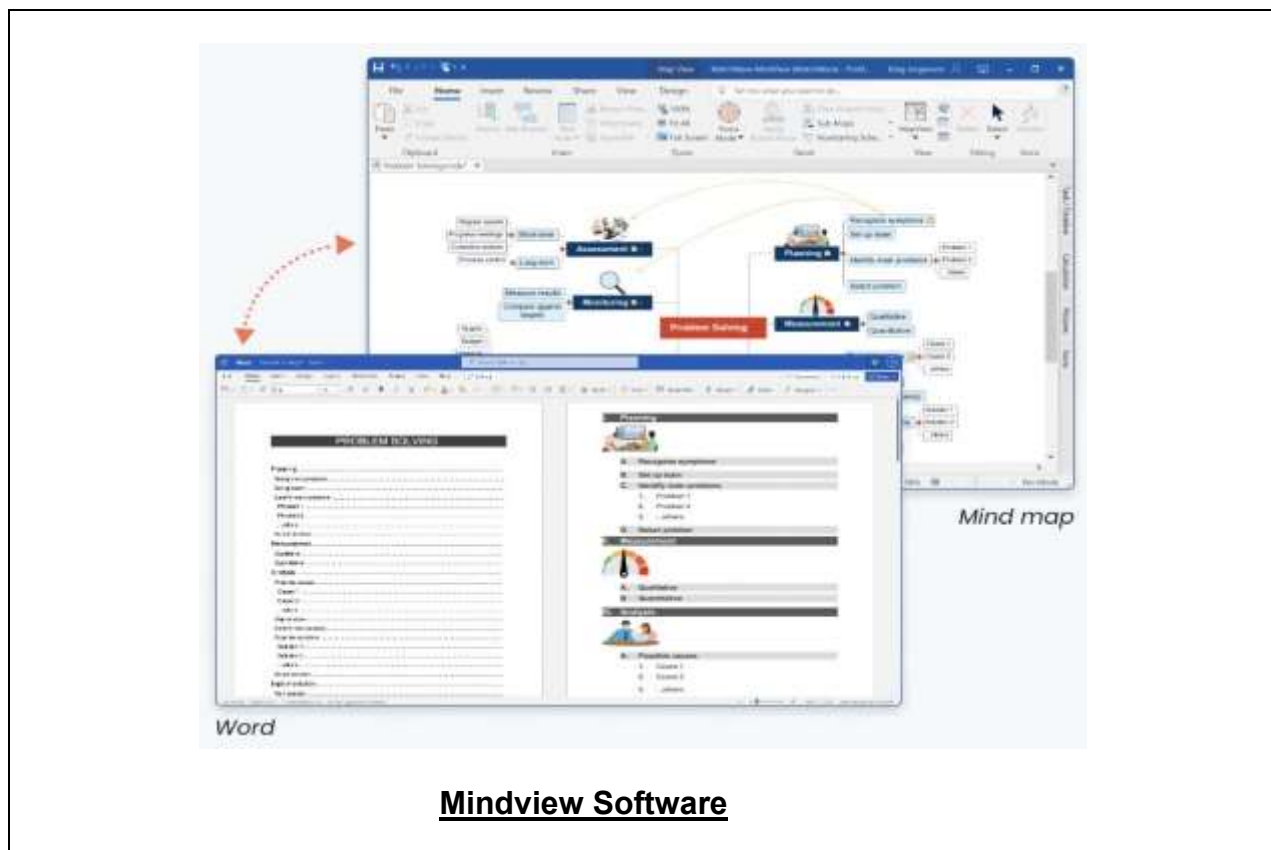
0730 – 0830	Mini VE Project Simulation (Part 1 – Setup) <i>Team Grouping • Project Selection • Information Gathering • FAST Diagram Development</i>
0830 – 0930	Mini VE Project Simulation (Part 2 – Creativity & Evaluation) <i>Brainstorming Session • Idea Evaluation • Cost Analysis • Solution Finalization</i>
0930 – 0945	Break
0945 – 1100	Presentation of VE Proposals <i>Group Presentations • Feedback & Scoring • Financial Impact Review • Functionality Review</i>
1100 – 1200	Measuring VE Success & KPIs <i>Value Index Tracking • Implementation Metrics • Cost Avoidance versus Savings • Time & Quality Metrics</i>

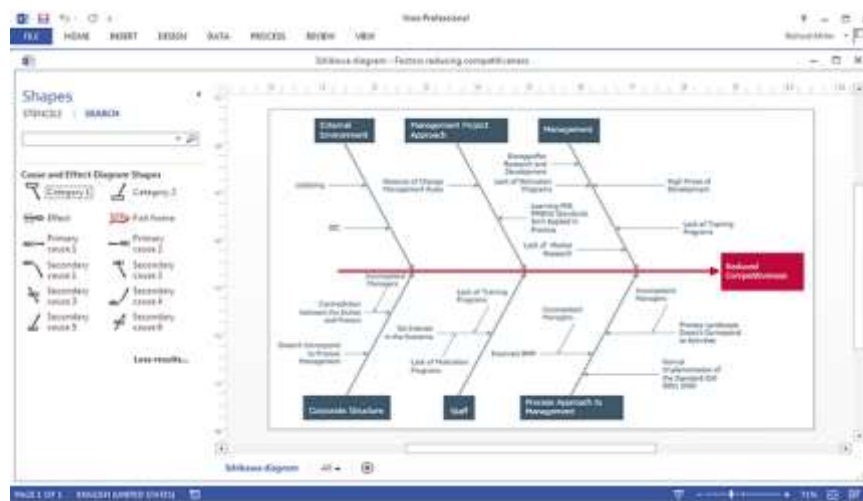


1200 – 1215	Break
1215 – 1300	Implementing VE in Bank-Wide Initiatives <i>Process Optimization • Customer Service Enhancement • Policy Review through VE • Digital Transformation Cases</i>
1300 – 1315	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1315 – 1415	COMPETENCY EXAM
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

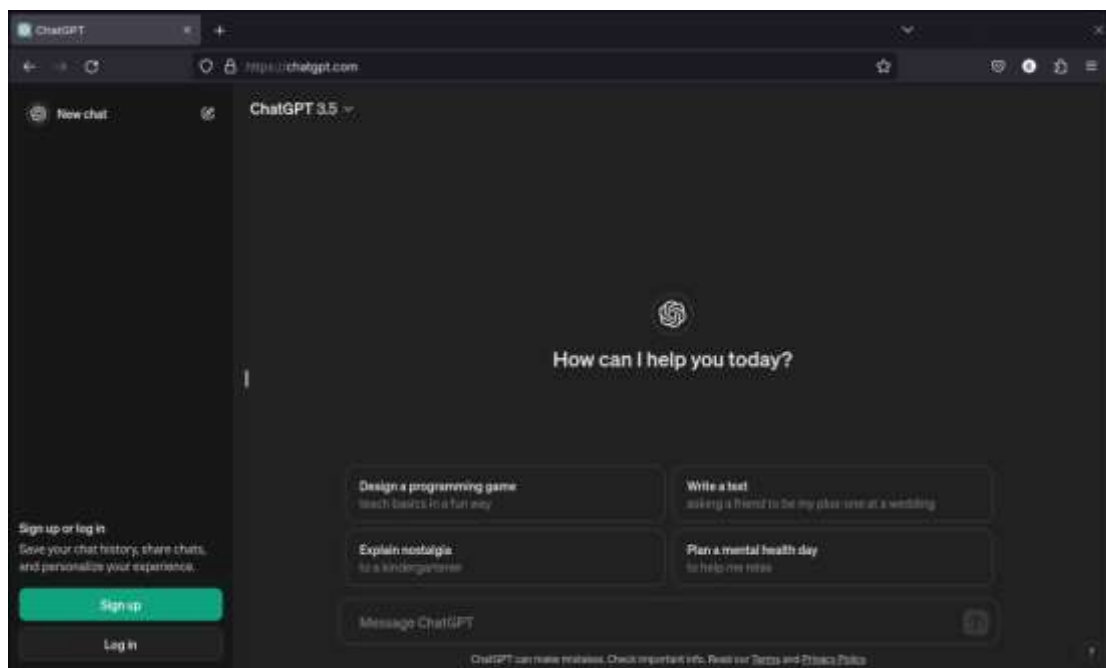
Software Tools Demonstration

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”.

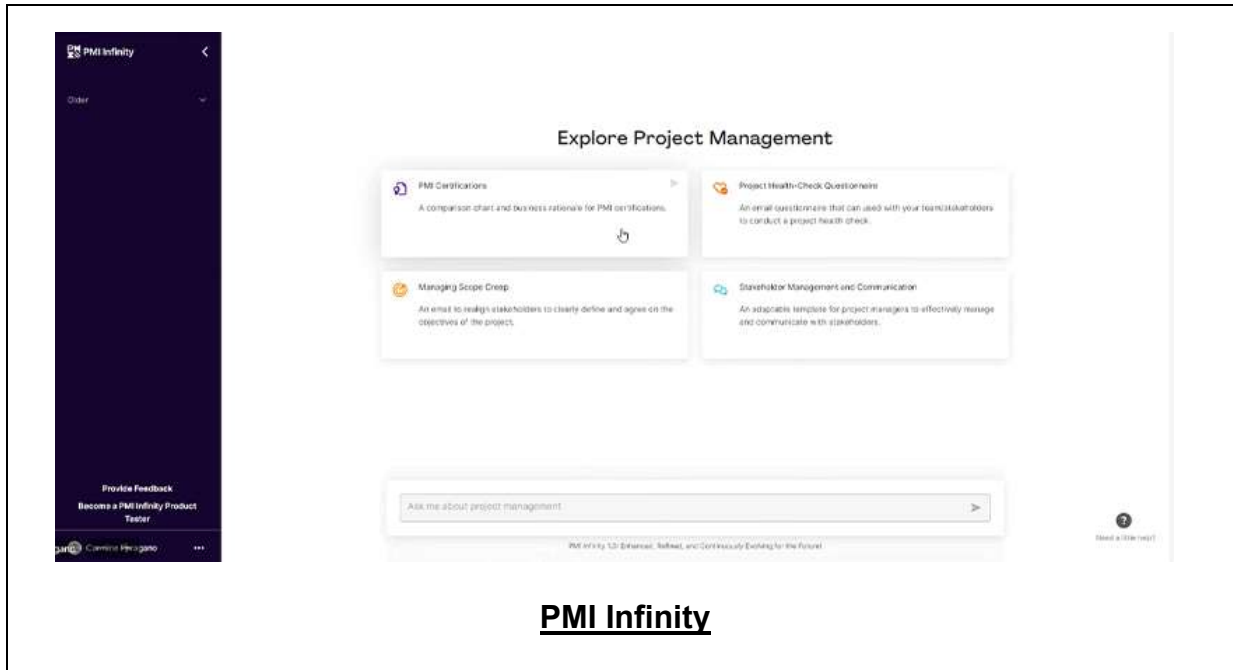




Visio Software



ChatGPT Software



PMI Infinity

Course Coordinator

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