



COURSE OVERVIEW PM0436 **Value Engineering**

Course Title

Value Engineering

Course Date/Venue

September 20-24, 2026/TBA Meeting Room,
Centro Corniche Al Khobar by Rotana, Al
Khobar, 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 state-of-the-art simulators.



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

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.



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 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 600, 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 AMT IACET API

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 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:



Mr. Mike Taylor, PhD (on-going), MScLI, MBA, MBL, BSc, HDE, is a **Senior Project & Finance Management Consultant** with over **30 years** of experience in **Power & Water Utilities, Other Energy** Sectors and **Financial** industries. His expertise lies extensively in the areas of **Value Engineering, Cost Analysis & Worth Estimation, Project Quality Management, Quality Control & Site Inspection, Project Quality Plan, Construction Quality Management, Material Management & Project Turnover, 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, Project Planning, Scheduling & Cost Control Professional, Project Scheduling & Cost Control, Facilitation & Leadership Skills, Coaching, Human Resource Development, Psychometric Testing, Career Development & Competence, Succession Planning, Self-Development & Empowerment, Personal Learning Needs Identification, Data Quality Control, Data Quality Assessment, Data Quality Planning, Data Quality Strategy Management, Customer Management, Leadership Skills, Presentation Skills, Negotiation Skills, Decision Making Skills, Communication Skills, Emotional Intelligence, Performance Management, Contract Management, Quality Management, Commercial Strategy, Project Management, Risk Management, Leadership & Business Management, Human Resource Management, Planning, Budgeting & Cost Control, Business Development, Innovation, Sales Strategy and Knowledge & Intangible Asset Assessment Design**. Further, he is also well versed in **Project Financial Data, Financial Indicators, Financial Leverage, Discounted Cash Flows, Economic Cost Analysis, Equity Profitability Analysis, Financial Modelling & Forecasting, Financial Analysis Techniques, Financial Data Analysis Concepts & Process, Credit Analysis, Financial & Accounting Management, Financial Planning Techniques, Vendor Invoice Processing & Management, Evaluating Cost & Revenue, Budgeting & Cost Control and Marketing Management**. Mr. Taylor is the **Founder & CEO** of Mitakon Innovation Pty Ltd wherein he is responsible for the development of Executives & Senior Managers specializing in innovation, knowledge management and commercial negotiation as well as authored, implemented and executed a global 21st century facilitation and leadership methodology.

During his career life, Mr. Taylor has gained his practical and field experience through his various significant positions and dedication as the **Knowledge-Solutions Service Provider, Founder-Principal/CIO, Subject Matter Expert, Consulting Partner, Executive/Management Development Facilitator, Multinational/Corporate Senior Management Consultant, Senior Quality & Finance Management Consultant, Executive Management Development/Facilitator, Business Consultant/Facilitator, Business & Quality Consultant/Coach, Client Director, Administration Manager, Quality Manager, International Sales & Business Development Executive, Regional Sales Manager, National Key Accounts Manager, Commercial Sales & Marketing Consultant, Admin Assistant, Sales & Marketing Representative, Key Note Speaker, Lecturer and Instructor/Trainer** for various international companies such as the Highland Group (Business Consulting), **Anglo American, BHP Billiton, Rio Tinto, DI Management Solutions (BPO), Master Deal Making Institute (MDMI), RMG/Contact Media & Communications, Paul Dinsdale Properties (PDP), Giant Leap Architects, Wise Capital Investments (HOD), Evolution® Advertising, Collaborative Xchange, Leatt Corporation, Dentsply SA, FMCG/Binzagr Company, Unilever, Kellogg's, BAT, Hershey's, CORO, Lilly Direct/Lennon Generics and Bausch & Lomb**.

Mr. Taylor has **Master's** degree in **Leadership & Innovation, Business Administration and Business Leadership** as well as a **Bachelor** degree in **Physical Education** and pursuing **PhD** in **Global Governance & Energy Policy**. Further, he is a **Certified Instructor/Trainer, Certified Internal Verifier/Trainer/Assessor** by the **Institute of Leadership & Management (ILM)** and a member of **Incremental Advantage, Da Vinci Institute, Black Management Forum, Institute of Directors (IOD), World Future Society (WFS), Social Science Research Network, University of Kwazulu Natal (Alumnus), Anthropology & Archaeology Research Network and National Research Foundation (NRF)**. He has further delivered numerous trainings, courses, workshops, seminars and conferences globally.



Training Methodology

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

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

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

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, 20th of September 2026

0730 – 0800	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	Overview of Value Engineering (VE) <i>Definition of VE • Historical Development • Importance in Cost Optimization • Common Misconceptions</i>
0930 – 0945	<i>Break</i>
0945 – 1030	Fundamentals of Value & Function <i>Understanding “Value” • Function Analysis Basics • Types of Functions • Cost Versus Worth</i>
1030 – 1130	Phases of the Value Engineering Job Plan <i>Information Phase • Functional Analysis Phase • Creative Phase • Evaluation & Development Phase</i>
1130 – 1215	Cost Analysis & Worth Estimation <i>Cost Breakdown Techniques • Determining Function Worth • Identifying Unnecessary Costs • Cost-to-Function Ratios</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Application of VE in Financial & Infrastructure Projects <i>VE for Banking Facilities • Project Financing Models • Stakeholder Expectations • ROI & Lifecycle Considerations</i>
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, 21st of September 2026

0730 – 0830	In-Depth Functional Analysis Primary & Secondary Functions • Function Logic & Relationships • Applying the “How-Why” Logic • Practice Exercise
0830 – 0930	Creating FAST Diagrams for Real Projects Steps in Developing FAST • Logical Sequencing • Using Software Tools • Reviewing VE Case Studies
0930 – 0945	Break
0945 – 1100	Creativity in Value Engineering Barriers to Creativity • Divergent Thinking Methods • Brainstorming Techniques • Encouraging Team Innovation
1100 – 1215	Creative Phase Techniques SCAMPER Model • Attribute Listing • Reverse Thinking • Group Creativity Workshops
1215 – 1230	Break
1230 – 1330	Selecting Best Alternatives Evaluating VE Ideas • Feasibility Analysis • Risk Identification • Stakeholder Acceptance
1330 – 1420	Application to Financial System Improvement VE in IT & Financial Software Projects • Enhancing Service Value • Customer-Centric Improvements • Banking Process Optimization
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 September 2026

0730 – 0830	Evaluation Phase Overview Evaluation Criteria • Scoring & Ranking Systems • Risk versus Value Charts • Impact versus Cost Matrix
0830 – 0930	Lifecycle Costing & Value Indexing Total Cost of Ownership (TCO) • Net Present Value (NPV) • VE Value Index Formula • Prioritization Matrices
0930 – 0945	Break
0945 – 1100	Development Phase & Recommendations Developing Proposals • Cost Models • Technical Feasibility Studies • Management Presentation Techniques
1100 – 1215	Reporting & Documentation in VE VE Report Structure • Summary of Alternatives • Functional Matrix • Cost Saving Documentation
1215 – 1230	Break
1230 – 1330	Integrating VE Into Project Management Linking with Project Stages • PMO & VE Integration • Timeline & Budget Impact • Communication with Stakeholders
1330 – 1420	Case Study: VE Applied in Public Infrastructure Finance Real-World Banking Sector Case • Analyzing Decisions • Before versus After Results • Lessons Learned
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 September 2026

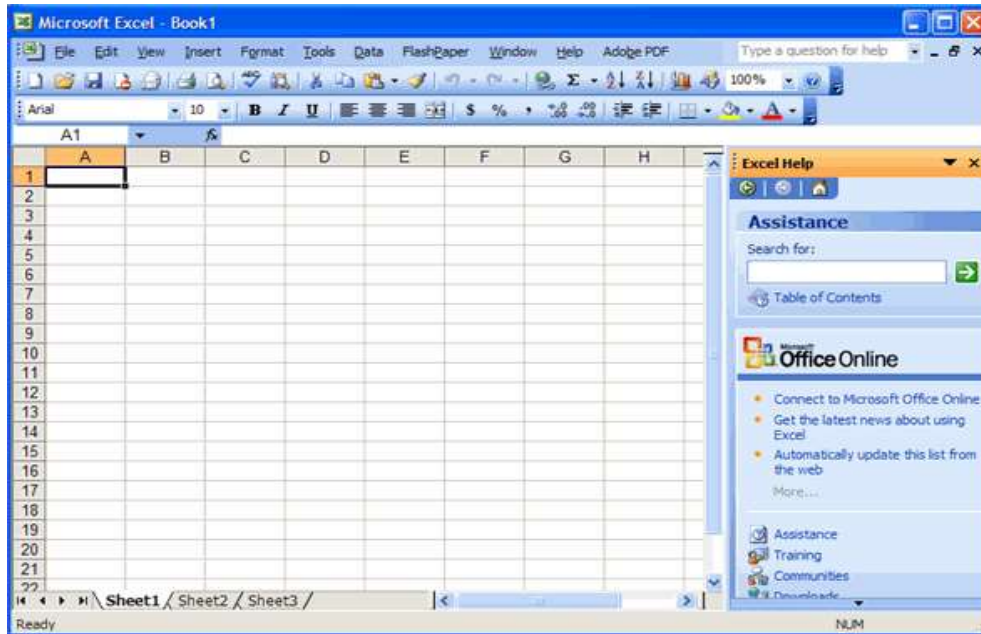
0730 – 0830	Building an Effective VE Team Roles & Responsibilities • Selecting Team Members • Technical & Creative Balance • Multidisciplinary Integration
0830 – 0930	Facilitating a VE Workshop Stages of Workshop Facilitation • Managing Group Dynamics • Encouraging Contribution • Time Management
0930 – 0945	Break
0945 – 1100	Tools & Techniques for Value Engineering Cost-Worth Matrix • Pareto Analysis • SWOT Analysis • Root Cause Analysis
1100 – 1215	VE in Procurement & Vendor Selection Value-Based Procurement • VE in RFP Review • Total Cost versus Initial Cost • Vendor Evaluation
1215 – 1230	Break
1230 – 1330	Information Management & VE Databases Capturing Historical Data • Creating a VE Knowledge Base • Benchmarking • Document Control
1330 – 1420	Software Tools for VE Planning MS Excel for Cost Models • Mind Mapping Tools • VE Templates • Use of Primavera & MS Project in VE Integration
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 September 2026

0730 – 0830	Mini VE Project Simulation (Part 1 – Setup) Team Grouping • Project Selection • Information Gathering • FAST Diagram Development
0830 – 0930	Mini VE Project Simulation (Part 2 – Creativity & Evaluation) Brainstorming Session • Idea Evaluation • Cost Analysis • Solution Finalization
0930 – 0945	Break
0945 – 1100	Presentation of VE Proposals Group Presentations • Feedback & Scoring • Financial Impact Review • Functionality Review
1100 – 1200	Measuring VE Success & KPIs Value Index Tracking • Implementation Metrics • Cost Avoidance versus Savings • Time & Quality Metrics
1200 – 1215	Break
1215 – 1300	Implementing VE in Bank-Wide Initiatives Process Optimization • Customer Service Enhancement • Policy Review through VE • Digital Transformation Cases
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

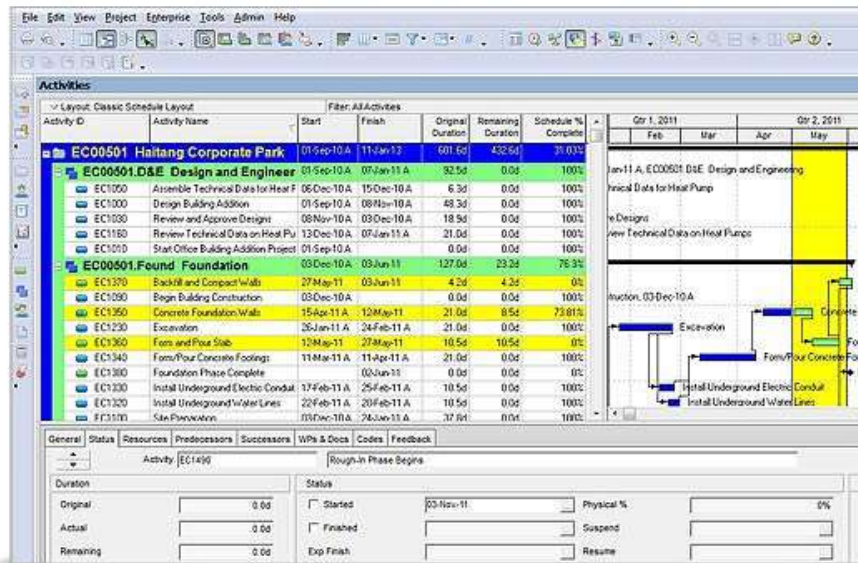
Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using “MS-Excel”, “MS Project”, “Primavera P6” and “Mindview” simulators.

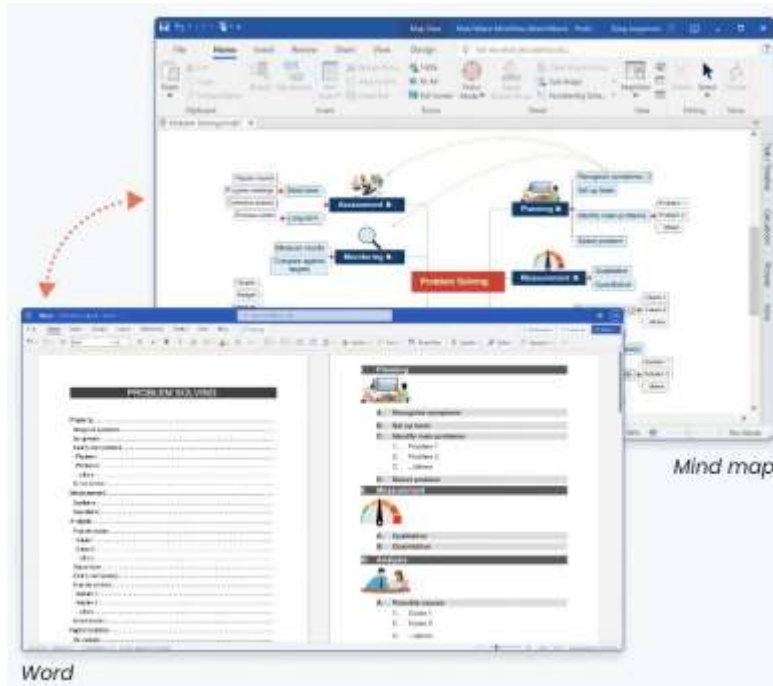


MS-Excel





Primavera P6



Mindview Software

Course Coordinator

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