



COURSE OVERVIEW PM0436 Value Engineering

Course Title
Value Engineering

Course Date/Venue
October 05-09, 2025/Boardroom 1, Elite Byblos Hotel, Al Barsha, Sheikh Zayed Road, Dubai, UAE

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 “MS-Excel” applications.

Value Engineering is a structured, function-oriented approach to cost reduction which yields savings without compromising quality, performance or usefulness. In fact, the design alternatives developed through the value engineering process invariably result in significant cost savings with equal or improved functional value.

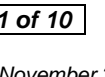
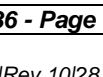
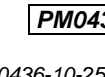


A knowledge and understanding of the value engineering methodology is becoming increasingly important to construction professionals. More industries and corporations than ever before using Value Engineering to realize the greatest value from limited financial resources. Within the worldwide construction industry numerous and other bodies involved in design or construction are including contractual requirements for VE studies on their projects.

The course has been designed to appeal to individuals in all areas of the construction industry. Owner representatives, planners, architects, suppliers and other decision-makers can all benefit by the learning process and techniques of Value Engineering.



As an integral part of this VE training course, you will participate in an actual value engineering team study working on a real *construction* project to help you gain an in-depth understanding of how and why Value Engineering gets results. During the intensive instruction and “hands-on” effort, you will be shown how value engineering can work for you, in your organization and on your particular projects.





This course is designed to provide participants with an overview of value engineering. It covers the value analysis, value engineering or value management; the value methodology and historical milestones; how value analysis methods spread globally and evolved; defining value as a basic concept; identifying who determines value; the various types of value; the value index; establishing, understanding sources and determining worth and possible reasons for poor value; the key data required (cost, process, risk); the potential value improvement opportunities based on available information; transforming data and organizing/diagramming key resources; the function analysis; the purpose of using function analysis; and the classification of functions.

During this interactive course, participants will learn the random list of functions, constructing a random function identification worksheet and the fast diagram; the common terms in the use of a financial analysis including the common terms on life cycle costing; the time value of money; the purpose and procedures of each phase of the VM job plan including how each phase builds on its previous phases; the different information gathering techniques, function analysis techniques, creative techniques and evaluation techniques; the different development techniques, recommendations, key features to sell value opportunities and path forward for implementation; the key value recommendations; and the information for effective delivery and visual aids and technologies to deliver a presentation.

Course Objectives

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

- Get a Certificate in Value Engineering from Haward Technology
- Explain value analysis, value engineering or value management as well as define the value methodology and historical milestones
- Discuss how value analysis methods spread globally and evolved
- Define value as a basic concept and identify who determines value including the various types of value
- Interpret the value index, establish, understand sources and determine worth and possible reasons for poor value
- Define key data required (cost, process, risk)
- Identify potential value improvement opportunities based on available information
- Transform data and organize/diagram key resources
- Define function analysis, explain the purpose of using function analysis and classify functions
- Discuss the random list of functions, construct a random function identification worksheet and illustrate fast diagram
- Recognize the common terms in the use of a financial analysis including the common terms on life cycle costing as well as interpret the time value of money
- Describe the purpose and procedures of each phase of the VM job plan including how each phase builds on its previous phases





- Carryout different information gathering techniques, function analysis techniques, creative techniques and evaluation techniques
- Employ different development techniques, develop recommendations, identify key features to sell value opportunities and suggest path forward for implementation
- Illustrate key value recommendations, organize information for effective delivery and apply leverage visual aids and technologies to deliver a presentation
- Anticipate and respond to questions, identify key features to sell value opportunities and illustrate path forward for implementation

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides an overview of all significant aspects and considerations of 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.

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.

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.

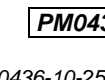
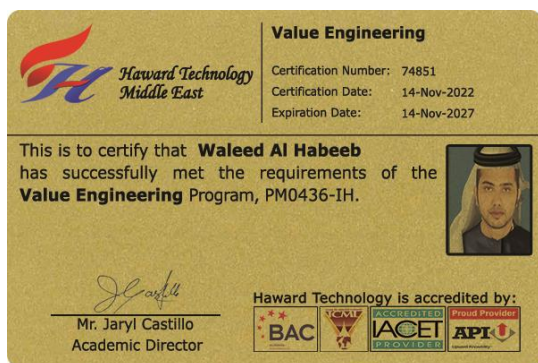


Course Certificate(s)

- (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.

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)

CEUs

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



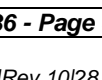
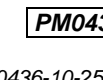






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Certificate Accreditations


Certificates are accredited by the following international accreditation organizations:-

- 
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.

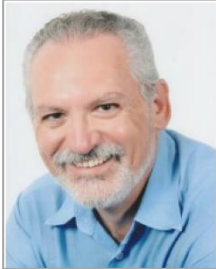
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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. 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.



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. Steve Magalios, CEng, PGDip (on-going), MSc, BSc, Senior Project & Management Consultant with over **40 years** of extensive experience in the areas of **Project Quality Management, Project Planning & Scheduling, Project Management, Project Estimating & Budgeting, Project & Construction Engineering, Effective Quality Management System (QMS), QMS Framework, Quality Assurance Standards, QA Audit Process & Techniques, Coaching Skills, Coaching Plan, Mentoring Techniques, Communication & Listening Techniques, Office Administration, Office Management, Invoice Management, Administration Process, Administration Work Procedures, Facilitation & Leadership Skills, Human Resource Development, Psychometric Testing, Career Development & Competence, Succession Planning, Self-Development & Empowerment, Personal Learning Needs Identification, Critical Success Factors (CSFs), Key Performance Indicators (KPIs), Productivity Creativity & Thinking Modes, Human Resource Scorecard Management, Career Laddering, Fast-Track Career Progression Application, Knowledge Management, Customer Management, Leadership Skills, Presentation Skills, Negotiation 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, Organization Management & Business Consulting, Stakeholder & Supplier Evaluation, Data Collection & Information Gathering, Value & Supply Chain Management, Intellectual Property & Innovation Assessments, Logistics & Supply Chain Management, Budgeting & Cost Control and Marketing Management.** Currently, he is the **Chartered Professional Surveyor Engineer & Urban-Regional Planner** wherein he is deeply involved in providing exact data, measurements and determining properly boundaries. He is also responsible in preparing and maintaining sketches, maps, reports and legal description of surveys.

During his career, Mr. Magalios has gained his expertise and thorough practical experience through challenging positions such as a **Project Site Construction Manager, Construction Site Manager, Project Manager, Deputy PMS Manager, Head of the Public Project Inspection Field Team, Technical Consultant, Senior Consultant, Consultant/Lecturer, Construction Team Leader, Lead Pipeline Engineer, Project Construction Lead Supervising Engineer, Lead Site Engineer, Senior Site Engineer Lead Engineer, Senior Site Engineer, R.O.W. Coordinator, Site Representative, Supervision Head and Contractor** for international Companies such as the Penspen International Limited, Eptista Servicios de Ingenieria S.I., J/V ILF Pantec TH. Papaioannou & Co. – Emenergy Engineering, J/V Karaylannis S.A. – Intracom Constructions S.A., Ergaz Ltd., Alkyonis 7, Palaeo Faliro, Piraeus, Elpet Valkaniki S.A., Asprofos S.A., J/V Depa S.A. just to name a few.

Mr. Magalios is a **Registered Chartered Engineer** and has **Master** and **Bachelor** degrees in **Surveying Engineering** from the **University of New Brunswick, Canada** and the **National Technical University of Athens, Greece**, respectively. Further, he is currently enrolled for **Post-graduate** in **Quality Assurance** from the **Hellenic Open University, Greece**. He has further obtained a **Level 4B Certificates** in **Project Management** from the **National & Kapodistrian University of Athens, Greece** and **Environmental Auditing** from the **Environmental Auditors Registration Association (EARA)**. Moreover, he is a **Certified Instructor/Trainer**, a **Chartered Engineer** of **Technical Chamber of Greece** and has delivered numerous trainings, workshops, seminars, courses and conferences internationally.





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, 05th of October 2025

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Value Methodology Explain Value Analysis, Value Engineering or Value Management • Define the Value Methodology • Define Historical Milestones • Know How Value Analysis Methods Spread Globally and Evolved • Understand What Constitutes a Value Study
0930 – 0945	Break
0945 – 1100	Value Methodology: The Concept of Value Define Value as a Basic Concept (Functions Divided by Resources) • Who Determines Value • Types of Value
1100 – 1230	Value Methodology: The Concept of Value (cont'd) Define the Value Index (Function Cost Divided by Function Worth) • Establish, Understand Sources, and Determine Worth • Possible Reasons for Poor Value
1230 - 1245	Break
1245 – 1420	Value Methodology: The Code of Conduct
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2: Monday, 06th of October 2025

0730 – 0930	Transform Information: Express Information Define Key Data Required (Cost, Process, Risk) • Identify Potential Value Improvement Opportunities Based on Available Information
0930 – 0945	Break
0945 – 1100	Transform Information: Apply Value Modeling in a Value Study Transform Data (Pareto Diagram, etc.) • Organize/Diagram Key Resources (Space, Time, Energy, Labor or Staffing, Cost, Materials, etc.)
1100 – 1230	Function Analysis Define Function Analysis • Explain Purpose of Using Function Analysis
1230 - 1245	Break
1245 – 1420	Function Analysis: Differentiate Functions Define What is a Function • Classify Functions
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 07th of October 2025

0730 – 0930	Function Analysis: Organize Functions Explain What is a Random List of Functions • Construct a Random Function Identification Worksheet • Explain What is a Fast Diagram
0930 – 0945	Break
0945 – 1100	Cost Analysis: Compute Financial Assessment Know the Common Terms in the Use of a Financial Analysis (Net Present Value, Present Worth, ROI, Simple Payback)





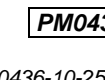
1100 – 1230	Cost Analysis: Apply Life Cycle Costing Know the Common Terms on Life Cycle Costing • Interpret the Time Value of Money
1230 - 1245	Break
1245 – 1420	Workshop Stage (Six-Phase VM Job Plan): Manage the Six Phases of the VM Job Plan Express the Purpose and Procedures of Each Phase of the VM Job Plan • Express How Each Phase Builds on Its Previous Phases
1420 – 1430	Recap
1430	End of Day Three

Day 4: Wednesday, 08th of October 2025

0730 – 0930	Workshop Stage (Six-Phase VM Job Plan): Complete Information Phase Express Different Information Gathering Techniques
0930 – 0945	Break
0945 – 1100	Workshop Stage (Six-Phase VM Job Plan): Complete Function Analysis Phase Express Different Function Analysis Techniques
1100 – 1230	Workshop Stage (Six-Phase VM Job Plan): Complete Creative Phase Express Different Creative Techniques
1230 - 1245	Break
1245 – 1420	Workshop Stage (Six-Phase VM Job Plan): Complete Evaluation Phase Express Different Evaluation Techniques
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5: Thursday, 09th of October 2025

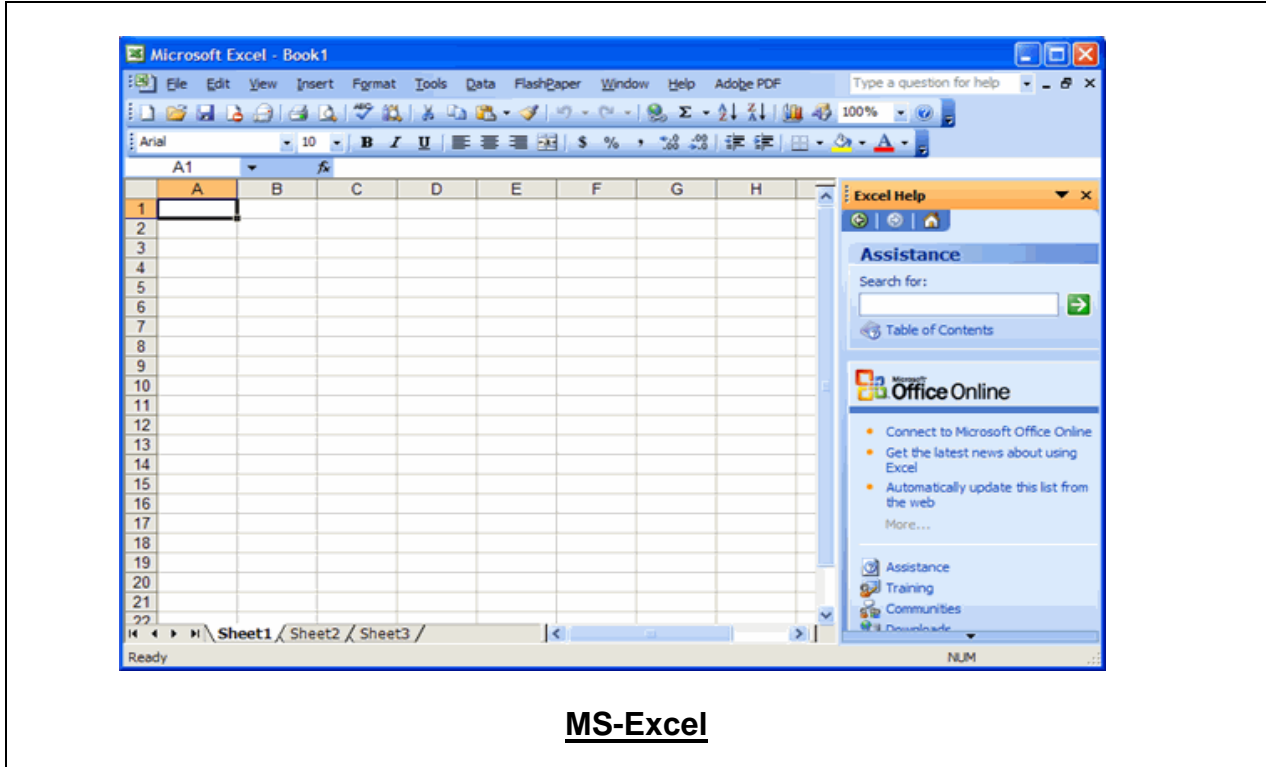
0730 - 0930	Workshop Stage (Six-Phase VM Job Plan): Complete Development Phase Express Different Development Techniques • Develop Recommendations
0930 - 0945	Break
0945 – 1100	Workshop Stage (Six-Phase VM Job Plan): Complete Development Phase (cont'd) Identify Key Features to Sell Value Opportunities • Suggest Path Forward for Implementation
1100 - 1230	Workshop Stage (Six-Phase VM Job Plan): Complete Presentation Phase Illustrate Key Value Recommendations • Organize Information for Effective Delivery • Leverage Visual Aids and Technologies to Deliver a Presentation
1230 - 1245	Break
1245 - 1300	Workshop Stage (Six-Phase VM Job Plan): Complete Presentation Phase (cont'd) Anticipate and Respond to Questions • Express Key Features to Sell Value Opportunities • Illustrate Path Forward for Implementation
1300 - 1315	Course Conclusion
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” application.



Course Coordinator

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

