



COURSE OVERVIEW PM0422
Value Engineering
Value Methodology Fundamentals 1 (VMF 1)
Value Methodology Associate (VMA)
(SAVE-VMA Exam Preparation Training)

Course Title

Value Engineering: Value Methodology Fundamentals 1 (VMF 1): Value Methodology Associate (VMA) (SAVE-VMA Exam Preparation Training)



Course Date/Venue

December 15 -19, 2024/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference

PM0422



Course Duration/Credits

Five days/3.2 CEUs/32 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 Methodology Associate (VMA) is a recognition designed for individuals who are new to the Value Methodology field and have received basic Value Methodology training. This entry level certification is encouraged for those desiring to have on-going involvement in Value Management.



This course is designed to provide participants with a detailed and up-to-date overview of Value Methodology Fundamentals 1 (VMF 1). It covers the value analysis, value engineering or value management; the value methodology and historical milestones; how value analysis methods spread globally and evolved; the certification within SAVE International and what constitutes a value study; the value index, sources and possible reasons for poor value; the SAVE International standards of conduct and key data required (cost, process, risk); the potential value improvement opportunities based on available information; and the function analysis, random list of functions, random function identification worksheet and fast diagram.



During this interactive course, participants will learn the common terms in the use of a financial analysis and life cycle costing; the time value of money and the purpose and procedures of each phase of the VM job plan; 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; and the key value recommendations, organizing 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:-

- Prepare for the next SAVE-VMA exam and have enough knowledge and skills to pass such exam in order to get certified as a “*Value Methodology Associate (VMA)*” from the Society of American Value Engineers (SAVE)
- 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
- Recognize the certification within SAVE International and what constitutes a value study
- 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
- Explain the SAVE International standards of conduct and 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, sample video clips of the instructor’s actual lectures & practical sessions during the course 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.

Exam Eligibility & Structure

Exam Candidates shall have the following minimum prerequisites:-

- Complete an approved Value Methodology Fundamentals 1 (VMF 1) course
- Submit and pay the required application and fee
- Successfully pass the VMA exam

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 Fee

US\$ 7,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee

US\$ 250 per Delegate + **VAT**.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.






Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

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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 **3.2 CEUs** (Continuing Education Units) or **32 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.



- 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.

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Society of American Value Engineers (SAVE)

This Value Engineering – Value Methodology Fundamentals 1 course complies with the **SAVE (Society of American Value Engineers)** regulation and is designed to certify successful participant as an “*Value Methodology Associate (VMA)*”.





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:

	<p>Dr. Marc Pauwels, CVS, TVM, PVM, PhD, MSc, BSc, is the President of Krehl & Partner in Germany, a Value Management Consultant company that was founded in 1969 by Hermann Krehl, who is called the “German Father of Value Engineering”. Dr. Pauwels got in contact with VA/VE during his studies of Mechanical Engineering at the University of Siegen. After his studies, he continued his work as PhD student and did research on “Intercultural Product Development”, a combination of intercultural aspects with the methods of VA/VE. In 1999, he joined Krehl & Partner and since 2003 he is one of its Presidents. In parallel to his work, Dr. Pauwels is also engaged honorary as President of the German Value Management Society, where he is responsible for the development of technical guidelines and the annual conference of VA/VE.</p>
<p>Dr. Pauwels is a Certified Value Specialist (CVS), Certified Module 1 Workshop Instructor, a Certified Instructor/Trainer and holds the European Certificates of Professional for Value Management and Trainer for Value Management.</p>	

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: Monday, 14th of October 2024

0730 – 0745	Registration & Coffee
0745 – 0800	Welcome, Introduction & Ice Breaking
0800 – 0815	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 • Certification within SAVE International • Understand What Constitutes a Value Study
0930 – 0945	Break
0945 – 1200	Value Methodology: The Concept of Value Define Value as a Basic Concept (Functions Divided by Resources) • Who Determines Value • Types of Value
1200 – 1300	Lunch
1300 – 1430	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
1430 – 1445	Break
1445 – 1520	Value Methodology: The Code of Conduct Explain the SAVE International Standards of Conduct
1520 – 1530	Recap
1530	End of Day One





Day 2: Tuesday, 15th of October 2024

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 – 1200	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.)
1200 – 1300	Lunch
1300 – 1430	Function Analysis Define Function Analysis • Explain Purpose of Using Function Analysis
1430 – 1445	Break
1445 – 1520	Function Analysis: Differentiate Functions Define What is a Function • Classify Functions
1520 – 1530	Recap
1530	End of Day Two

Day 3: Wednesday, 16th of October 2024

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 – 1200	Cost Analysis: Compute Financial Assessment Know the Common Terms in the Use of a Financial Analysis (Net Present Value, Present Worth, ROI, Simple Payback)
1200 – 1300	Lunch
1300 – 1430	Cost Analysis: Apply Life Cycle Costing Know the Common Terms on Life Cycle Costing • Interpret the Time Value of Money
1430 – 1445	Break
1445 – 1520	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
1520 – 1530	Recap
1530	End of Day Three

Day 4: Thursday, 17th of October 2024

0730 – 0930	Workshop Stage (Six-Phase VM Job Plan): Complete Information Phase Express Different Information Gathering Techniques
0930 – 0945	Break
0945 – 1200	Workshop Stage (Six-Phase VM Job Plan): Complete Function Analysis Phase Express Different Function Analysis Techniques
1200 – 1300	Lunch
1300 – 1430	Workshop Stage (Six-Phase VM Job Plan): Complete Creative Phase Express Different Creative Techniques
1430 – 1445	Break
1445 – 1520	Workshop Stage (Six-Phase VM Job Plan): Complete Evaluation Phase Express Different Evaluation Techniques
1520 – 1530	Recap
1530	End of Day Four



Day 5: Friday, 18th of October 2024

0730 – 0930	Workshop Stage (Six-Phase VM Job Plan): Complete Development Phase <i>Express Different Development Techniques • Develop Recommendations</i>
0930 – 0945	<i>Break</i>
0945 – 1200	Workshop Stage (Six-Phase VM Job Plan): Complete Development Phase (cont'd) <i>Identify Key Features to Sell Value Opportunities • Suggest Path Forward for Implementation</i>
1200 – 1300	<i>Lunch</i>
1300 – 1400	Workshop Stage (Six-Phase VM Job Plan): Complete Presentation Phase <i>Illustrate Key Value Recommendations • Organize Information for Effective Delivery • Leverage Visual Aids and Technologies to Deliver a Presentation</i>
1400 – 1415	<i>Break</i>
1415 – 1445	Workshop Stage (Six-Phase VM Job Plan): Complete Presentation Phase (cont'd) <i>Anticipate and Respond to Questions • Express Key Features to Sell Value Opportunities • Illustrate Path Forward for Implementation</i>
1445 – 1500	Course Conclusion
1500 – 1515	POST TEST
1515 – 1530	<i>Presentation of Course Certificates</i>
1530	<i>End of Course</i>

MOCK Exam

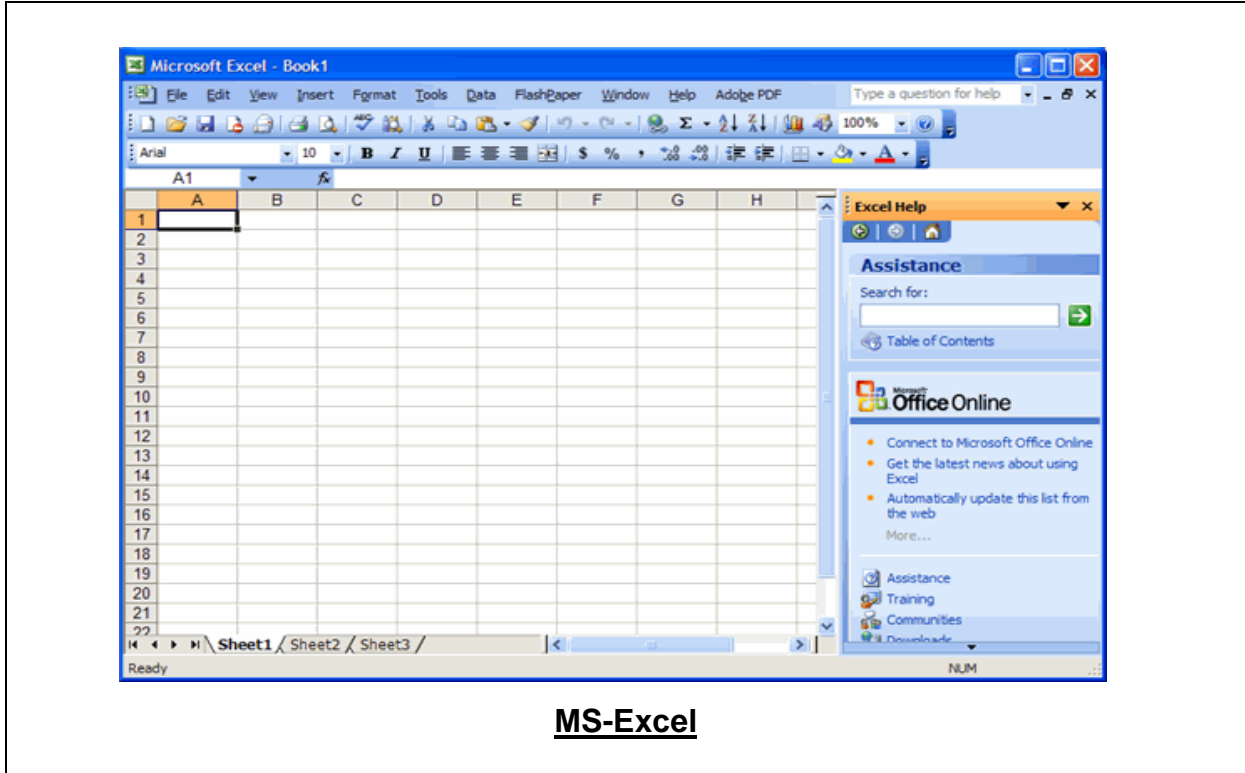
Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward’s Portal. Each participant will be given a username and password to log in Haward’s Portal for the MOCK Exam during the 7 days following the course completion. Each participant has only one trial for the MOCK exam within this 7-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.





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

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