

CERTIFIED VALUE ENGINEERING

"Maximizing Functionality, Minimizing Cost - A Structured Approach to Project and Process Optimization"

Schedule

Date	Venue	Fees
19 - 23 Apr 2026	Dammam, KSA	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training, In-House Training

Introduction

Value Engineering (VE) is a proven methodology that improves project performance and optimizes costs without compromising on quality or functionality. It is widely adopted across industries such as construction, manufacturing, oil & gas, and public infrastructure to enhance decision-making, innovation, and stakeholder value.

This intensive five-day course equips professionals with the knowledge, tools, and techniques needed to conduct effective Value Engineering studies. Delivered in line with SAVE International® standards, the course prepares participants to contribute to or lead value improvement workshops and aligns them for further certification as a Certified Value Specialist (CVS) or Associate Value Specialist (AVS).

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals, phases, and terminology of Value Engineering
- Apply the VE job plan to systematically analyze functions and costs
- Conduct function analysis and develop creative, high-value solutions
- Facilitate or participate in VE workshops across different sectors
- Align project goals with stakeholder needs, lifecycle costs, and performance expectations

Why Attend

- Learn a globally recognized methodology for cost optimization and value improvement
- Improve project outcomes while preserving or enhancing quality and performance
- Acquire practical skills in function analysis, idea generation, and evaluation
- Prepare for further certification under SAVE International®
- Increase your contribution to organizational efficiency, innovation, and profitability

Target Audience

This program is designed for:

- Engineers, project managers, and cost estimators
- Procurement, planning, and construction professionals
- Product developers and process improvement specialists
- Government and infrastructure decision-makers
- Anyone involved in value improvement or seeking AVS/ CVS certification

Individual Benefits

Key competencies that will be developed include:

- Proficiency in conducting and participating in VE studies
- Ability to identify high-impact cost savings without reducing performance
- Knowledge of function analysis systems and creative problem-solving
- Skills to lead or contribute to structured VE workshops
- Readiness to pursue AVS or CVS certification

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced project and product costs through value-driven alternatives
- Improved lifecycle performance and cost-effectiveness
- Stronger alignment between client requirements and technical solutions
- A structured method for multidisciplinary collaboration and innovation
- Increased return on investment (ROI) across capital and operational projects

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Value Engineering principles, job plan phases, and certification pathways
- Case Studies - Examples of VE application in major industries and public projects
- Workshops - Step-by-step function analysis, idea evaluation, and FAST diagram development
- Peer Exchange - Group discussions and simulated VE team environments
- Tools - Templates for job plans, function analysis, evaluation matrices, and VE reporting

MAWA EVENTS

Address: No. 857, Block A2, Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net



Course Outline

DETAILED 5-DAY COURSE OUTLINE

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Value Engineering

- Module 1: VE Fundamentals and Origins (07:30 – 09:30) • History and evolution of Value Engineering • Definitions: value, function, cost, and worth • SAVE International® standards and certification paths
- Module 2: The VE Job Plan – Overview (09:45 – 11:15) • Six-phase job plan: Information, Function, Creative, Evaluation, Development, Presentation • VE study team roles and planning VE sessions • VE applications across sectors
- Module 3: Case Study – Public Infrastructure VE (11:30 – 01:00) • Analysis of a VE application in transportation • Benefits and implementation challenges
- Module 4: Workshop – Scoping a VE Study (02:00 – 03:30) • Define study objectives, stakeholders, and data requirements

Day 2: Function Analysis and Creative Thinking

- Module 1: Function Analysis Fundamentals (07:30 – 09:30) • Defining basic and secondary functions • How-Why logic and verb-noun function statements • Function cost and function worth
- Module 2: FAST Diagram Development (09:45 – 11:15) • Building Function Analysis System Technique (FAST) diagrams • Linking logic paths and identifying improvement areas • Software tools for FAST
- Module 3: Creative Phase Techniques (11:30 – 01:00) • Brainstorming and creativity stimulation • Avoiding idea filtering during generation • Cross-functional idea collection
- Module 4: Workshop – FAST Diagram & Idea Generation (02:00 – 03:30) • Teams build FAST diagram and generate alternatives

Day 3: Evaluation and Development Phases

- Module 1: Evaluation Criteria and Techniques (07:30 – 09:30) • Feasibility, cost-effectiveness, and risk assessment • Ranking and scoring ideas • Facilitating consensus
- Module 2: Cost Estimating in VE (09:45 – 11:15) • Estimating cost savings and implementation costs • Lifecycle cost analysis (LCCA) • Value index and payback period
- Module 3: Developing VE Alternatives (11:30 – 01:00) • Building detailed descriptions of selected alternatives • Design sketches, data, and performance impacts • Preparing recommendations for decision-makers
- Module 4: Workshop – Developing a VE Proposal (02:00 – 03:30) • Groups select, evaluate, and develop VE ideas into recommendations

Day 4: Presentation and Workshop Simulation

- Module 1: Presentation Phase (07:30 – 09:30) • Structuring a VE report and executive summary • Delivering persuasive presentations to stakeholders • Documenting study results and benefits
- Module 2: Facilitating VE Studies (09:45 – 11:15) • Team dynamics and facilitation best practices • Managing time, participation, and conflict • Ethics and neutrality in VE
- Module 3: VE in Project Lifecycle and Procurement (11:30 – 01:00) • VE during planning, design, procurement, and construction • Integrating VE into contracts and RFPs • VE and value management (VM)
- Module 4: Workshop – Final Presentation Prep (02:00 – 03:30) • Prepare a full VE presentation package

Day 5: Final Presentations and Certification Guidance

- Module 1: VE Study Presentations (07:30 – 09:30) • Teams present their VE proposals • Panel feedback and group discussion
- Module 2: Lessons Learned and Success Factors (09:45 – 11:15) • Key takeaways from VE studies • Avoiding common pitfalls in implementation
- Module 3: SAVE Certification Pathway (11:30 – 01:00) • AVS/CVS requirements, application, and exam format • Career advancement and industry recognition
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Module 4: Wrap-Up and Certification (02:00 – 03:30) • Final Q&A • Action planning and certificate distribution

Certification

Participants will receive a Certificate of Completion in Certified Value Engineering, affirming their mastery of the SAVE International® Value Methodology and readiness to participate in or lead Value Engineering studies across diverse sectors.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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Interested in running this course for your team?

Please contact us:

TEL:

+601116373203

EMAIL:

info@mawaevents.net

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