**MAWA EVENTS**

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

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

# VALUE ENGINEERING & METHODOLOGY - ADVANCED

*"Maximizing Value, Minimizing Waste, Enhancing Project Outcomes"*

## Schedule

| Date | Venue | Fees (Face-to-Face) |
|---|---|---|
| 06 – 10 Jul 2026 | London, UK | USD 3495 per delegate |

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

## Introduction

This advanced course in value engineering (VE) and methodology provides professionals with an in-depth understanding of how to optimize project performance, reduce costs, and enhance value across all stages of a project. It focuses on the practical application of VE techniques in complex projects to maximize efficiency and return on investment. Participants will gain the skills to implement VE in both design and operational phases, driving better outcomes for their organizations.

## Objectives

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

- Apply advanced value engineering principles to complex projects
- Identify areas for cost reduction while maintaining or enhancing value
- Lead VE workshops and facilitate value analysis of project components
- Utilize quantitative and qualitative analysis techniques for value improvement
- Integrate VE into various stages of the project lifecycle, from concept to post-completion

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## Why Attend

- Deepen your understanding of advanced VE techniques and methodologies
- Learn how to drive continuous value improvement throughout a project\'s life cycle
- Develop the skills to lead and facilitate value engineering teams effectively
- Gain the expertise to assess and enhance project value using both qualitative and quantitative methods
- Enhance your ability to optimize cost and performance while managing risk

## Target Audience

This program is designed for:

- Senior project managers and engineers
- Value engineering professionals
- Cost estimators and financial analysts
- Construction and design engineers
- Business executives involved in project decision-making
- Consultants and contractors working on large-scale projects

## Individual Benefits

Key competencies that will be developed include:

- Leadership and facilitation of value engineering workshops
- Cost optimization and value enhancement techniques
- Advanced problem-solving and analytical skills
- Strategic thinking and application of VE methodologies
- Mastery of both qualitative and quantitative value analysis

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- A comprehensive understanding of advanced value engineering principles
- The ability to implement cost-saving and value-enhancing solutions in projects
- Increased project efficiency and reduced overall project costs
- Strengthened capacity for managing complex project challenges
- Enhanced organizational competitiveness and profitability

## Instructional Methodology

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

- Presentations and case study discussions
- Real-world examples of VE implementation in complex projects
- Group workshops and peer-led analysis exercises
- Tools and templates for value analysis, cost control, and project optimization
- Practical tips for facilitating VE workshops and managing project stakeholders

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## 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 Advanced Value Engineering**

- Module 1: Overview of Advanced Value Engineering
- Definition and principles of advanced VE
- Key drivers for applying VE in complex projects
- Role of VE in achieving project success
- Module 2: VE Methodology and Process
- The VE job plan and its stages
- Understanding the functional analysis system technique (FAST)
- Identifying value improvement opportunities
- Module 3: Integrating VE with Project Management
- Aligning VE objectives with project goals
- Incorporating VE into project planning and execution phases
- Case studies of VE in successful projects

**Day 2: Advanced VE Techniques for Cost Optimization**

- Module 4: Quantitative VE Tools
- Using data to assess project value
- Cost-benefit analysis and lifecycle cost modeling
- Advanced techniques for evaluating project alternatives
- Module 5: Identifying and Managing Risks
- Risk management in VE
- Mitigating risks while optimizing project value
- Evaluating risk and uncertainty in value engineering
- Module 6: VE Workshop Facilitation
- Planning and facilitating VE workshops
- Engaging stakeholders and team members
- Best practices for leading VE sessions

**Day 3: VE in Design and Operational Phases**

- Module 7: VE During Design
- Applying VE in the design phase to improve project deliverables
- Identifying cost-effective design solutions without compromising quality
- Case study of design-phase VE implementation
- Module 8: VE for Operations and Maintenance
- Optimizing operations through VE methodologies
- Enhancing asset performance and reducing operational costs
- Implementing VE during post-construction phases
- Module 9: Integrating Sustainability into VE
- Incorporating sustainable design practices in VE
- Identifying eco-friendly alternatives in the value engineering process
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Evaluating environmental costs and benefits

**Day 4: Advanced Analysis and Value Improvement**

- Module 10: Cost Optimization Models
- Developing and using models for cost analysis
- Advanced costing techniques for value improvement
- Quantitative methods for determining value improvement potential
- Module 11: Evaluating Alternative Solutions
- Cost vs. value analysis for alternative project solutions
- Scenario planning and decision-making techniques
- Comparative analysis of options for enhanced value
- Module 12: Stakeholder Management and VE Integration
- Aligning VE outcomes with stakeholder expectations
- Overcoming challenges in stakeholder buy-in
- Case study on stakeholder-driven VE improvements

**Day 5: Implementing VE and Continuous Improvement**

- Module 13: Developing Action Plans for VE Implementation
- Creating detailed action plans based on VE findings
- Setting measurable objectives for value improvement
- Monitoring and evaluating VE implementation
- Module 14: Measuring the Impact of VE
- Post-project reviews and evaluating VE success
- Reporting VE outcomes and value added to the project
- Continuous improvement practices in VE
- Module 15: Final Workshop – Action Plan Development
- Hands-on workshop to apply learnings to a real project scenario
- Group presentations and feedback
- Wrap-up and certification

## Certification

Participants will receive a Certificate of Completion in Advanced Value Engineering & Methodology, recognizing their expertise in implementing advanced VE strategies and methodologies to maximize value and minimize costs in complex projects.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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| **In-House / Customized Training**<br>Interested in running this course for your team?<br>Please contact us: | TEL:<br>**+601116373203** | EMAIL:<br>**info@mawaevents.net** |