

BASIC VALUE ENGINEERING

"Maximize Function, Minimize Cost—Master the Essentials of Value Engineering."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Basic Value Engineering (VE) is a structured, function-oriented methodology that enhances the value of a project, product, or process by improving performance and reducing cost. This course introduces the core principles of VE, including function analysis, creative problem-solving, cost-benefit evaluation, and lifecycle costing. Participants will gain practical skills in identifying unnecessary costs while preserving or improving quality and performance.

Objectives

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

- Understand the principles and benefits of value engineering
- Apply the value methodology to projects, products, or processes
- Conduct function analysis to identify improvement opportunities
- Use creative thinking techniques to generate value alternatives
- Evaluate alternatives using cost-benefit and lifecycle tools
- Facilitate or contribute to a VE study

Why Attend

- Improve cost efficiency without compromising functionality
- Contribute effectively to multidisciplinary project teams
- Learn internationally recognized VE practices and techniques
- Develop decision-making skills rooted in function-based thinking

Target Audience

- Project Managers and Engineers
- Procurement and Cost Control Professionals
- Construction and Manufacturing Professionals
- Quality and Process Improvement Teams
- Business Analysts and Decision-Makers

Individual Benefits

- Gain problem-solving and cost-optimization skills
- Increase project contribution and cross-functional collaboration
- Develop competencies aligned with SAVE International® standards

Organizational Benefits

- Deliver projects with optimal value and performance
- Achieve cost savings while maintaining or improving quality
- Foster innovation and creative thinking in project execution
- Strengthen team-based decision-making and project alignment

Instructional Methodology

- Hands-on workshops and team-based VE studies
- Case studies from real engineering and industrial scenarios
- Interactive sessions using function analysis tools and creativity techniques
- Worksheets and templates for VE reporting and cost modeling

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Day 1: Introduction to Value Engineering

- Module 1: Fundamentals of Value Engineering (07:30 – 09:30)
- Module 2: Value vs. Cost vs. Quality – Core Concepts (09:45 – 11:15)
- Module 3: History and Standards (SAVE, ASTM E1699) (11:30 – 01:00)
- Module 4: Overview of the Value Methodology Job Plan (02:00 – 03:30)

Day 2: Function Analysis Phase

- Module 1: Identifying and Classifying Functions (07:30 – 09:30)
- Module 2: FAST Diagrams – Function Analysis System Technique (09:45 – 11:15)
- Module 3: Function-Cost-Worth Evaluation (11:30 – 01:00)
- Module 4: Team Exercise: Developing a FAST Diagram (02:00 – 03:30)

Day 3: Creative & Evaluation Phases

- Module 1: Creativity Techniques (Brainstorming, SCAMPER) (07:30 – 09:30)
- Module 2: Idea Generation in VE Studies (09:45 – 11:15)
- Module 3: Evaluation Criteria: Technical, Economic, Risk-Based (11:30 – 01:00)
- Module 4: Weighted Matrix & Alternative Scoring (02:00 – 03:30)

Day 4: Development & Presentation Phase

- Module 1: Cost Estimation and Lifecycle Analysis (07:30 – 09:30)
- Module 2: VE Proposals and Recommendations (09:45 – 11:15)
- Module 3: Implementation Planning and Reporting Formats (11:30 – 01:00)
- Module 4: Group Work: Drafting VE Proposals (02:00 – 03:30)

Day 5: Simulated VE Workshop

- Module 1: VE Study Walkthrough (07:30 – 09:30)
- Module 2: Group Presentations and Peer Reviews (09:45 – 11:15)
- Module 3: Lessons Learned and Success Stories (11:30 – 01:00)
- Module 4: Final Quiz, Wrap-Up, and Certification (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion in Basic Value Engineering, aligned with the methodologies endorsed by SAVE International and applicable to industries like construction, oil & gas, manufacturing, and infrastructure.

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.

In-House / Customized Training

Interested in running this course for your team?

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