

aractech

Global Learning for Operational Leaders



MAINTENANCE AND ENGINEERING | ME-004

Value Engineering

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Course content

Why Attend

Value Engineering (VE) is a conscious and explicit set of disciplined procedures designed to seek out optimum value for both initial and long-term investment. First utilized in the manufacturing industry over 70 years ago, it has since been widely used in other industries for many years.

Value Engineering is not simply a design/peer review or a cost-cutting exercise. Rather, Value Engineering is a creative, organized effort, which analyzes the requirements of a project for achieving the essential functions at the lowest total costs (e.g. capital, staffing, energy, maintenance) over the life of the project. Through a group investigation, using experienced and multi-disciplinary teams, value and cost efficiency can be improved through the study of alternate design concepts, materials, and methods without compromising the functional and value objectives of the client/organization.

Course Methodology

- The course is interactive and is comprised of lectures, case studies, technical process learning and supplemental discussions related to various industries and the challenges of implementation.

Course Objectives

- Implement Value Engineering in the workplace
- Increase asset reliability and availability to world class standards
- Reduce unscheduled downtime and production interruptions
- Reduce maintenance costs by 50-70%
- Learn global benchmarking standards

Target Audience

- Engineering professionals who have at least three years of experience. Those include Maintenance Managers, Maintenance Supervisors, Maintenance Engineers, Operational Excellence Personnel, Reliability Engineers, Plant Managers, Engineering Managers, Manufacturing Managers, Production Managers, Operations Managers, Project Managers, Asset Managers and Quality Assurance Personnel.
- Target Competencies
- Value Techniques

Course outline

Detailed course outline

Module-by-module outline for Value Engineering.

Module 1 - Introduction to Value Engineering (VE)

- Objectives of Value Engineering
- When to apply Value Engineering
- Impact of Value Engineering
- Introduction to project scope
- Budget analysis
- Elements of the project budget

Module 2 - Introduction to Value Engineering

- Value techniques
- The Total Value Management Concept
- VE phase relationships – Value management in design
- Classes of Value
- Types of Value
- When to apply Value Engineering

Module 3 - Function evaluation

- Basic and secondary functions

Module 4 - Function Analysis Systems Technique (FAST)

- FAST procedure
- FAST examples

Course outline

Detailed course outline

Module-by-module outline for Value Engineering.

Module 5 - The Six-Step VE Job Plan

- Information
- Speculation
- Planning
- Execution
- Reporting
- Implementation

Seminar dates

Available seminar dates

Live dates and pricing for Value Engineering generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Vienna	Classroom	€2,975
20 - 24 July 2026	Barcelona	Classroom	€2,695
3 - 7 August 2026	Paris	Classroom	€3,150
7 - 11 September 2026	Frankfurt	Classroom	€2,275
12 - 16 October 2026	Barcelona	Classroom	€2,695
9 - 13 November 2026	Frankfurt	Classroom	€2,275
14 - 18 December 2026	Rome	Classroom	€2,975

Live online option

Online delivery is available at €1,250.