Value Analysis & Engineering: Maximizing Value, Minimizing Waste

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Milan (Italy)



Value Analysis & Engineering: Maximizing Value, Minimizing Waste

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Why This Course

In an increasingly competitive global marketplace, organizations must deliver higher value at lower cost—without compromising quality. Value Analysis VA and Value Engineering VE have become essential methodologies for achieving operational efficiency, optimizing processes, and driving innovation. These approaches enable organizations to systematically eliminate unnecessary costs, improve performance, and enhance customer satisfaction.

The Value Analysis & Value Engineering Excellence - Intensive 1-Week Programme is designed for professionals seeking to master these powerful methodologies and apply them across products, services, and processes. Through practical exercises, analytical tools, and real-world case studies, participants will learn how to generate meaningful cost savings while strengthening overall value delivery.

What You'll Learn and Practice

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

- Apply core principles and advanced techniques of Value Analysis and Value Engineering.
- Identify non-value-adding activities and systematically eliminate unnecessary costs.
- Use function analysis and FAST diagrams to improve processes and enhance product/service value.
- Apply cost modeling, life cycle costing, and risk assessment in VA/VE projects.
- Lead successful VA/VE initiatives that produce measurable improvements in quality, performance, and efficiency.

The Programme Flow

Day 1: Introduction to Value Analysis and Value Engineering

- Fundamentals, objectives, and scope of VA/VE
- Evolution of value methodologies and modern applications
- The VA/VE job plan and its phases
- Core value concepts and terminology



Day 2: Function Analysis and FAST Diagrams

- Identifying, defining, and classifying functions
- Applying the Function Analysis System Technique FAST
- Building and interpreting FAST diagrams
- Conducting function-cost analysis for improvement opportunities

Day 3: Creative and Analytical Techniques

- Creativity tools for generating high-value alternatives
- Systematic evaluation and selection methods
- Cost modeling, estimation, and life cycle costing
- Risk assessment techniques in VA/VE initiatives

Day 4: Waste Elimination and Process Optimization

- Identifying and categorizing waste in processes
- Integrating Lean principles with VA/VE
- Process mapping, analysis, and redesign
- Strategies for continuous improvement and sustained value creation

Day 5: Implementation and Case Studies

- Developing and presenting VA/VE proposals
- Implementation planning and change management considerations
- Measuring, validating, and reporting VA/VE outcomes
- Real-world case studies, group exercises, and applied practice

Individual Impact

Participants will gain the ability to:

- Lead and facilitate VA/VE studies across departments and functions.
- Identify and eliminate 15-30% of unnecessary project or process costs.
- Improve product/service value through structured analysis and creativity.
- Apply continuous improvement strategies to sustain long-term value gains.

Organizational Impact

Organizations will benefit through:

- Significant cost savings and enhanced operational efficiency.
- Improved product/service quality and customer satisfaction.
- Stronger cross-functional collaboration and problem-solving capabilities.
- A systematic approach to innovation, value creation, and waste reduction.



Training Methodology

This programme features:

- Practical workshops and hands-on value analysis exercises
- Real-world case studies and group simulations
- Tools, templates, and frameworks for immediate workplace application
- Interactive discussions and guided problem-solving sessions

Beyond the Course

Upon completion, participants will be ready to lead impactful VA/VE initiatives, optimize processes, and contribute to long-term organizational competitiveness and excellence through structured value improvement.

