



# **Value Engineering in Project Management**



**AGILE LEADERS**  
Training Center



# Value Engineering in Project Management

## Course Overview:

This course is designed to equip project managers with the knowledge and tools necessary to enhance project value by optimizing costs, improving efficiency, and identifying opportunities for added value. Participants will explore Value Engineering VE techniques, and learn how to apply these methods to maximize project outcomes without compromising quality. The course provides both theoretical knowledge and practical experience, ensuring that attendees leave with actionable skills.

## Target Audience:

- Project Managers
- Engineering Managers
- Cost Estimators
- Procurement Managers
- Operations Managers

## Targeted Organizational Departments:

- Project Management Office PMO
- Engineering and Design Department
- Procurement Department
- Operations Department
- Construction Management

## Targeted Industries:

- Oil and Gas Sectors
- Construction Industry
- Manufacturing Industry
- Infrastructure Development
- Power Generation and Distribution



## Course Offerings:

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

- Understand the principles of Value Engineering.
- Conduct value analysis to identify cost-saving opportunities.
- Apply VE techniques across different project phases.
- Balance cost, quality, and performance in decision-making.
- Lead Value Engineering workshops.
- Implement VE in both capital and operational projects.

## Training Methodology:

The course uses a combination of lectures, group discussions, case studies, and practical workshops. Participants will engage in hands-on exercises, applying Value Engineering concepts to real-world projects.

### Course Toolbox:

- VE process templates
- Case studies and examples
- Value analysis checklists
- Recommended reading materials

## Course Agenda:

### Day 1: Introduction to Value Engineering

- Topic 1: Fundamentals of Value Engineering
- Topic 2: Value vs. Cost vs. Quality
- Topic 3: VE Applications in Project Phases
- Topic 4: Value Engineering Process Overview
- Topic 5: Overview of Project Constraints and Value Drivers
- Reflection & Review

### Day 2: Analyzing Project Costs and Functionality

- Topic 1: Identifying Key Project Functions
- Topic 2: Function Analysis System Technique FAST
- Topic 3: Determining Cost Drivers
- Topic 4: Cost Breakdown Structures
- Topic 5: Prioritizing Value-Adding Activities
- Reflection & Review

### **Day 3: Applying Value Engineering Techniques**

- Topic 1: Value Analysis and Function-Cost Matrix
- Topic 2: Idea Generation and Evaluation
- Topic 3: Alternative Solutions and Scenarios
- Topic 4: Decision-Making in VE
- Topic 5: Implementing VE Recommendations
- Reflection & Review

### **Day 4: Managing VE Workshops and Teams**

- Topic 1: Planning and Facilitating VE Workshops
- Topic 2: Engaging Stakeholders in VE
- Topic 3: Collaborative Decision-Making Techniques
- Topic 4: Overcoming VE Implementation Barriers
- Topic 5: Reporting VE Findings
- Reflection & Review

### **Day 5: VE Documentation, Reporting, and Control**

- Topic 1: VE Documentation Best Practices
- Topic 2: Developing a VE Plan
- Topic 3: Monitoring and Evaluating VE Outcomes
- Topic 4: Presenting VE Results to Stakeholders
- Topic 5: Case Studies and Lessons Learned
- Final Review and Course Summary

### **How This Course is Different from Other Courses:**

The course stands apart from other courses due to its emphasis on both cost optimization and maximizing project value. What differentiates this program is its focus on practical application, utilizing real-world case studies and industry-specific examples to ensure participants can directly apply the concepts to their projects. Unlike traditional cost-focused courses, this program emphasizes the balance between cost, performance, and quality, equipping attendees with the skills to conduct effective Value Engineering workshops and make strategic decisions. By the end of the course, participants will have the confidence and expertise to lead Value Engineering initiatives, optimizing resources while enhancing project outcomes, making this course ideal for professionals aiming to deliver maximum value in their project management roles.



## Training Course Categories



**Finance and  
Accounting Training  
Courses**



**Agile PM and Project  
Management Training  
Courses**



**Certified Courses By  
International Bodies**



**Communication and  
Public Relations  
Training Courses**



**Data Analytics Training  
and Data Science  
Courses**



**Environment &  
Sustainability Training  
Courses**



**Governance, Risk and  
Compliance Training  
Courses**



**Human Resources  
Training and  
Development Courses**



**IT Security Training & IT  
Training Courses**



**Leadership and  
Management Training  
Courses**



**Legal Training,  
Procurement and  
Contracting Courses**



**Maintenance Training  
and Engineering  
Training Courses**



# Training Course Categories



**Marketing, Customer Relations, and Sales Courses**



**Occupational Health, Safety and Security Training Courses**



**Oil & Gas Training and Other Technical Courses**



**Personal & Self-Development Training Courses**



**Quality and Operations Management Training Courses**



**Secretarial and Administration Training Courses**



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## Training Cities



**Accra - Ghana**



**Amman - Jordan**



**Amsterdam - Netherlands**



**Baku - Azerbaijan**



**Bali - Indonesia**



**Bangkok - Thailand**



**Barcelona - Spain**



**Cairo - Egypt**



**Cape town - South Africa**



**Casablanca - Morocco**



**Chicago - USA**



**Doha - Qatar**



**Dubai - UAE**



**Geneva - Switzerland**



**Istanbul - Turkey**



**Jakarta - Indonesia**



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## Training Cities



**Johannesburg -  
South Africa**



**Kuala Lumpur -  
Malaysia**



**Langkawi -  
Malaysia**



**London - UK**



**Madrid - Spain**



**Manama - Bahrain**



**Milan - Italy**



**Munich - Germany**



**Nairobi - Kenya**



**Paris - France**



**Phuket - Thailand**



**Prague - Czech  
Republic**



**Rome - Italy**



**San Diego - USA**



**Sharm El-Sheikh -  
Egypt**



**Tbilisi - Georgia**



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## Training Cities



**Tokyo - Japan**



**Trabzon - Turkey**



**Vienna - Austria**



**Zanzibar - Tanzania**



**Zoom - Online  
Training**

# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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## CONTACT US

 UAE, Dubai Investment Park First

 +971585964727  
+447700176600

 [sales@agile4training.com](mailto:sales@agile4training.com)