

€ TRAINING

Value Engineering Skills





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Introduction:

This training program focuses on equipping participants with essential skills and knowledge in value engineering techniques. It empowers them to critically assess projects and implement innovative solutions to maximize value.

Program Objectives:

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

- Understand the principles and benefits of value engineering.
- Gain proficiency in applying value engineering techniques.
- Learn to identify cost-saving opportunities and enhance project efficiency.
- Develop skills in evaluating alternatives and making informed decisions.
- Implement value engineering practices to achieve project goals.

Target Audience:

- Engineers, architects, and project managers.
- Construction professionals and contractors.
- Procurement and supply chain managers.
- Government officials and policymakers.

Program Outline:

Unit 1:

Introduction to Value Engineering:

- Definition and Concepts of Value Engineering.
- History and Evolution of Value Engineering.
- Value Engineering vs. Cost Cutting.
- Value Engineering Methodologies FAST diagram, Function Analysis.

Unit 2:

Value Engineering Techniques:

- Functional Analysis and Value Identification.
- Brainstorming and Idea Generation Techniques.
- Cost-Benefit Analysis and Life Cycle Costing.
- Value Management and Value Analysis.
- Case Studies on Successful Value Engineering Projects.

Unit 3:

Implementing Value Engineering:

- Value Engineering in Design and Construction Phases.
- Value Engineering Workshops and Team Collaboration.
- Techniques for Evaluating Alternatives and Options.
- Value Engineering in Procurement and Supply Chain.
- Continuous Improvement in Value Engineering Practices.

Unit 4:

Decision-Making and Risk Management

- Decision Analysis and Multi-Criteria Decision Making.
- Risk Assessment and Mitigation Strategies.
- Balancing Value and Risk in Projects.
- Value Engineering and Sustainability.
- Innovations in Value Engineering Practices.

Unit 5:

Applying Value Engineering in Practice

- Real-world Applications and Case Studies.
- Challenges and Considerations in Value Engineering.



- Future Trends in Value Engineering.
- Certification and Professional Development in Value Engineering.
- Conclusion and Summary of Key Learnings.