



Strategic Value Engineering and Performance Optimization in Projects

03 - 07 May 2027
Geneva (Switzerland)



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Ref.: 121204_1022727 **Date:** 03 - 07 May 2027 **Location:** Geneva (Switzerland) **Fees:** 6500 Euro

Introduction:

Strategic value engineering and performance optimization are essential disciplines for maximizing project ROI and improving long-term sustainability across engineering and infrastructure initiatives. This Strategic Value Engineering and Performance Optimization in Projects course explores advanced methodologies for analyzing project value, evaluating life-cycle costs, and improving performance efficiency. Participants will learn how to diagnose performance gaps, eliminate waste, and strengthen decision-making processes using modern value-engineering frameworks.

The Strategic Value Engineering and Performance Optimization in Projects program also covers continuous improvement techniques that support innovative, cost-effective project delivery. By combining analytical thinking with structured evaluation tools, the course prepares professionals to optimize resources, enhance project feasibility, and drive measurable results. This training ensures a comprehensive understanding of how value, cost, and performance integrate to shape project success.

Targeted Groups:

This Strategic Value Engineering and Performance Optimization in Projects training targets professionals seeking specialized knowledge and skills:

- Engineering managers.
- Project planners.
- Infrastructure development specialists.
- Operations improvement professionals.
- Cost control and budgeting officers.
- Technical decision-makers.
- Quality engineers and process analysts.
- Senior technicians supporting optimization processes.

Course Objectives:

Participants will achieve the following objectives by completing the Strategic Value Engineering and Performance Optimization in Projects course:

- Understand the principles of value engineering and project performance improvement.
- Analyze project value, life-cycle cost, and resource allocation strategies.
- Apply performance optimization tools to real engineering and infrastructure projects.
- Evaluate cost-saving opportunities without compromising functionality.
- Implement structured decision-making methods to maximize ROI.
- Integrate sustainability and long-term efficiency into project planning.
- Strengthen analytical skills for value assessment and performance benchmarking.
- Identify performance gaps and propose corrective actions.
- Build a comprehensive approach for continuous improvement.
- Improve stakeholder communication using value and performance metrics.
- Enhance overall project outcomes through structured engineering assessment.

Targeted Competencies:

Participants will gain the following competencies during the Strategic Value Engineering and Performance Optimization in Projects program:

- Strong analytical thinking and value assessment.
- Practical project performance evaluation.
- Advanced cost optimization skills.
- Ability to identify inefficiencies and eliminate waste.
- Improved problem-solving and decision-making capabilities.
- Understanding of sustainability and long-term project value.
- Technical reasoning and structured process evaluation.
- Skills in performance benchmarking and scenario analysis.
- Competence in aligning value-engineering outcomes with project goals.

Studying Scenarios:

In this Strategic Value Engineering and Performance Optimization in Projects training, participants will develop their skills through the analysis of the following scenarios:

- Optimizing infrastructure project costs with alternative materials.
- Evaluation of engineering design options to improve ROI.
- Resolving performance gaps in complex project workflows.
- Redesigning project scope to enhance functionality and value.
- Case studies of resource allocation failures and corrective strategies.
- Assessing sustainability metrics in long-term infrastructure projects.
- Benchmarking project outcomes using modern engineering tools.

Course Content:

Unit 1: Foundations of Strategic Value Engineering:

- Definition and scope of value engineering in engineering and infrastructure projects.
- Importance of maximizing value without reducing essential functions.
- Key principles for evaluating value, cost, and customer requirements.
- Techniques for distinguishing between value-added and non-value-added activities.
- Systematic processes for analyzing project functions.
- Approaches to integrating sustainability into early design stages.
- Identifying improvement opportunities using structured assessment tools.

Unit 2: Performance Optimization Fundamentals:

- Understanding performance optimization as a continuous improvement discipline.
- Methods for measuring project performance using KPIs and benchmarks.
- Identifying bottlenecks and inefficiencies in engineering workflows.
- Tools for performance data collection and interpretation.
- Enhancing productivity across multidisciplinary project teams.
- Alignment of performance metrics with project objectives.
- Using root-cause analysis to solve operational problems.
- Evaluating performance outcomes against projected targets.

Unit 3: Cost Analysis and Value Assessment:

- Principles of cost-benefit analysis in infrastructure projects.
- Life-cycle costing techniques for long-term value evaluation.
- Evaluating trade-offs between cost, performance, and sustainability.
- Mapping cost drivers and understanding cost influence factors.
- Assessing alternative design proposals using value-engineering methodologies.
- Strategies for cost optimization without compromising functionality.
- Integrating cost analysis with risk and performance assessment.
- Tools for economic evaluation of complex engineering systems.

Unit 4: Modern Tools and Techniques for Optimization:

- Introduction to digital tools and analysis software used in value engineering.
- Leveraging data-driven insights for optimization decisions.
- Using modeling and simulation tools to test performance outcomes.
- Collaborative methods for cross-functional value-engineering workshops.
- Applying structured frameworks to enhance team ideation and innovation.
- Understanding industry best practices for project optimization.
- Documentation and reporting tools for value-engineering analysis.
- Developing actionable recommendations backed by performance analytics.

Unit 5: Practical Applications and Continuous Improvement:

- Real-world applications of value engineering in mega projects.
- Strengthening operational workflows using continuous improvement strategies.
- Integrating monitoring systems for ongoing performance evaluation.
- Implementing corrective actions and long-term optimization plans.
- Enhancing team coordination to sustain performance gains.
- Case examples of successful optimization initiatives.
- Maintaining project alignment with strategic business goals.
- Ensuring consistent value delivery throughout project execution.

Final Insights & Key Takeaways:

Strategic value engineering and performance optimization provide measurable improvements that enhance project outcomes, boost ROI, and strengthen sustainability. Applying structured analysis and modern optimization tools empowers professionals to maximize performance and ensure continuous improvement.



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