BLACKBIRD FOR TRAINING

Successful Cost Reduction Strategies and Cost Engineering and Earned Value Management

25 – 29 January 2027
Kigali (Rwanda)



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Introduction

The Cost Engineering and Earned Value Management Course offers an in-depth understanding of how to manage project costs effectively while ensuring timely and high-quality project delivery. Cost engineering, a specialized field, focuses on managing costs through techniques such as cost estimating, cost reduction, investment appraisal, and risk management.

Additionally, the course explores earned value management EVM, a powerful methodology that provides accurate insights into project performance and enables professionals to forecast and address potential issues proactively. By mastering cost engineering solutions and advanced earned value management techniques, participants will be equipped to maximize business returns, control budgets, and deliver successful projects.

Course Objectives

By the end of this course, participants will:

- Understand Cost Engineering: Define cost engineering, understand what is cost engineering, and learn about its significance in project management.
- Explore Cost Engineering Methods: Apply basic cost engineering and advanced methodologies to enhance project performance.
- Develop Cost Reduction Strategies: Learn the best cost reduction strategies to optimize ROI and reduce unnecessary expenditures.
- Master Earned Value Management: Gain expertise in earned value management techniques and understand the benefits of earned value management for project success.
- Analyze and Manage Risks: Learn how to assess and mitigate risks through integrated cost engineering solutions and schedule risk analysis.
- Forecast Project Outcomes: Use EVM to accurately predict project performance and address potential challenges early.
- Apply Strategic Insights: Develop actionable plans for cost control, budgeting, and reporting using EVM tools.



Course Outlines

Day 1: Cost Engineering Definitions & Cost Estimating Methodologies

- Understanding what is cost engineering and its key principles.
- Exploring cost engineering methods, including factor estimating, parametric estimating, and detailed estimating.
- Case studies on the practical application of cost engineering solutions in project planning.

Day 2: Location & Market Factors, Budgeting & Project Control

- Assessing location and market influences on cost estimates.
- Developing actionable budgets from estimates and transitioning to project control.
- Using advanced project control strategies to ensure cost and schedule alignment.
- Case study: Implementing earned value management for effective project monitoring.

Day 3: Assurance, Risk Identification, Assessment, and Management

- Exploring the role of assurance in project success.
- Comprehensive approaches to risk analysis, including schedule and cost risk assessments.
- Integrated cost and schedule risk analysis for improved project decision-making.
- Case study: Creating risk analysis models for large-scale projects.

Day 4: Earned Value Management: Concepts and Analysis

- Understanding earned value management concepts and what is earned value management.
- Applying EVM to track project performance and control costs.
- Techniques for setting baselines and maintaining project control using EVM.
- Case study: Tracking real-time project performance with advanced EVM tools.

Day 5: Monitoring, Reporting, & Advanced EVM Techniques

- Advanced monitoring techniques using EVM data.
- Crafting detailed project reports and dashboards for stakeholders.
- Leveraging advanced earned value management techniques for large-scale projects.
- Case study: Using EVM to forecast project success and address challenges proactively.



Why Attend this Course: Wins & Losses!

- Comprehensive Knowledge: Gain a deep understanding of cost engineering meaning, its methodologies, and its impact on project success.
- Practical Expertise: Master cost reduction strategies and EVM tools to enhance your project management capabilities.
- Strategic Skills: Learn how to develop and manage detailed cost plans, optimize ROI, and mitigate risks effectively.
- Career Advancement: Earn expertise in earned value management certification, enhancing your professional credentials.
- Future-Ready Tools: Leverage cost engineering solutions and advanced EVM techniques to address complex challenges in real-world projects.
- Improve Project Outcomes: Ensure budget adherence, avoid delays, and deliver projects with higher efficiency.
- Enhanced Decision-Making: Utilize integrated cost and schedule analyses for strategic insights and proactive solutions.

Conclusion

The Cost Engineering and Earned Value Management Course provides a well-rounded foundation in cost engineering methods and advanced project management strategies. By mastering basic cost engineering concepts and applying earned value management techniques, participants will gain the skills needed to optimize costs, improve ROI, and ensure project success.

Whether you are looking to enhance your expertise in cost engineering training, develop a comprehensive systems engineering plan, or understand the benefits of earned value management, this course prepares you for leadership roles in project management.

Join this course to take control of project costs, forecast outcomes with precision, and become a driving force for success in any organization!

