BLACKBIRD FOR TRAINING

Project Controls: Cost, Schedule and Performance Management

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Introduction

Effective project delivery requires more than establishing schedules, budgets, and performance targets. Organizations operating in complex and high-value environments must establish robust project control systems that enable project teams to monitor progress, manage costs, control schedules, identify risks, evaluate performance, and make informed decisions throughout the project lifecycle. Project Control provides the structured processes, tools, and analytical techniques required to maintain project performance and ensure that projects remain aligned with approved objectives, contractual requirements, organizational strategies, and expected business outcomes.

Modern projects increasingly involve multiple stakeholders, contractors, consultants, suppliers, and technical disciplines operating under demanding timelines and financial constraints. As project complexity increases, organizations require professionals who can integrate cost control, schedule control, progress measurement, forecasting, change management, risk monitoring, and performance reporting into a coordinated project control framework. Effective project control also requires strong communication between project managers, commercial teams, finance functions, engineering teams, contractors, and senior management.

The Project Control course provides a comprehensive understanding of the principles, processes, tools, and techniques required to establish and manage effective project control systems. Participants will examine the complete project control lifecycle, including project planning, baseline development, cost control, schedule management, progress measurement, earned value management, forecasting, change control, risk monitoring, performance analysis, reporting, and corrective action.

The course also focuses on practical approaches to controlling complex projects and improving management visibility throughout project execution. Participants will learn how to identify deviations from approved baselines, analyze project performance, evaluate cost and schedule trends, manage changes, forecast final project outcomes, and provide reliable information to support timely management decisions.

By integrating project planning, cost management, schedule control, performance measurement, risk management, and reporting practices, participants will develop the professional capabilities required to strengthen project governance, improve resource utilization, minimize cost and schedule overruns, and support successful project delivery.

Additional Course Objectives

• Develop a comprehensive understanding of modern Project Control principles and practices.

• Understand the relationship between project scope, schedule, cost, resources, risks, and

Head Office: +44 7480 775 526
Email: sales@blackbird-training.com
Website: www.blackbird-training.com

overall project performance.

• Establish effective project baselines for controlling scope, time, cost, and performance.

• Apply practical techniques for monitoring project progress and identifying deviations.

• Strengthen cost control and forecasting capabilities throughout the project lifecycle.

• Apply schedule control techniques to identify delays and evaluate schedule performance.

• Use Earned Value Management principles to measure project performance objectively.

• Improve the ability to analyze project data and develop accurate performance reports.

• Strengthen change control and risk monitoring practices to minimize project disruption.

• Develop professional decision-making skills for managing project performance and corrective actions.

Day 1 - Project Control Framework, Planning, and Baseline Development

• Introduction to modern Project Control principles and their role in successful project delivery.

• Understanding the relationship between project scope, objectives, deliverables, cost, schedule, and resources.

• Establishing an effective Project Control framework.

• Project planning and development of integrated control processes.

• Developing project baselines for scope, schedule, and cost.

• Work Breakdown Structure WBS and its importance in project control.

• Defining project control responsibilities and reporting structures.

• Identifying key project performance indicators and control requirements.

Day 2 - Cost Control, Budget Management, and Forecasting

• Principles of project cost control and financial performance management.

• Developing and managing project budgets.

• Cost estimating and establishing cost baselines.

• Monitoring actual project expenditure against approved budgets.

• Identifying cost variances and analyzing their causes.

• Cost forecasting and estimating final project outcomes.

• Managing commitments, accruals, and financial obligations.

• Developing practical cost control reports for project management.

• Managing cost risks and implementing corrective actions.

Day 3 - Schedule Control, Progress Measurement, and Earned Value Management

• Principles of effective project schedule control.

• Developing and maintaining integrated project schedules.

• Monitoring planned versus actual project progress.

• Identifying schedule delays, critical activities, and performance trends.

• Progress measurement techniques for complex projects.

• Introduction to Earned Value Management EVM.

• Understanding Planned Value, Earned Value, and Actual Cost.

• Calculating and interpreting Schedule Performance Index SPI and Cost Performance Index CPI.

• Using performance indicators to forecast project completion.

• Developing corrective actions to improve schedule and cost performance.

Day 4 - Change Control, Risk Management, and Performance Analysis

• Establishing effective project change control procedures.

• Identifying, evaluating, and documenting project changes.

• Assessing the impact of changes on scope, cost, schedule, resources, and contractual obligations.

• Integrating risk management into Project Control activities.

• Monitoring project risks, issues, and emerging threats.

• Analyzing project performance data and identifying trends.

• Managing deviations from approved project baselines.

• Developing corrective and preventive actions.

• Supporting project management decisions through accurate performance analysis.

Day 5 - Project Reporting, Governance, and Advanced Project Control

• Developing effective project control and management reports.

• Creating dashboards and performance indicators for senior management.

• Integrating cost, schedule, risk, and progress information into comprehensive project reporting.

• Project forecasting and final outcome analysis.

• Strengthening project governance and management accountability.

• Managing project controls throughout the project lifecycle.

• Improving communication between project control teams, project managers, contractors, consultants, and senior stakeholders.

• Best practices for preventing cost overruns and schedule delays.

• Case studies of successful and unsuccessful project control practices.

Why Attend This Workshop? Wins & Losses!

• Develop a comprehensive understanding of Project Control principles and their application throughout the project lifecycle.

• Strengthen the ability to establish and maintain effective project baselines.

• Improve cost control, budget monitoring, and financial forecasting capabilities.

• Enhance project scheduling, progress measurement, and performance monitoring skills.

• Gain practical knowledge of Earned Value Management and project performance indicators.

• Improve the ability to identify project deviations, risks, and emerging performance issues.

• Strengthen change control and corrective action capabilities.

• Develop professional project reporting and management decision-support skills.

Outcomes

• Enhance the ability to establish integrated project control systems aligned with organizational and project objectives.

• Improve the monitoring and control of project costs, schedules, resources, and performance.

• Develop practical expertise in cost forecasting, schedule analysis, progress measurement, and Earned Value Management.

• Strengthen the ability to identify project deviations and implement appropriate corrective actions.

• Improve project change control and risk monitoring capabilities.

• Enhance the quality and reliability of project performance reporting.

• Develop stronger analytical and decision-making capabilities for complex project environments.

• Support effective project governance and accountability through structured control processes.

• Improve the ability to forecast project outcomes and proactively manage potential cost and schedule overruns.

• Strengthen professional capabilities required to support successful project delivery and long-term organizational performance.

Conclusion

Effective Project Control is essential for ensuring that projects remain aligned with approved objectives, budgets, schedules, resources, contractual requirements, and expected outcomes. As projects become increasingly complex and involve multiple stakeholders, organizations require professionals capable of integrating planning, cost management, schedule control, progress measurement, risk management, change control, and performance reporting into a coordinated control framework.

The Project Control course equips participants with the knowledge, analytical capabilities, and practical techniques required to monitor and control project performance throughout the project lifecycle. By applying structured project control practices, participants will be better prepared to identify deviations, manage risks, control costs, address schedule challenges, evaluate project performance, and provide reliable information for management decision-making.

Through the integration of modern Project Control methodologies, performance measurement techniques, forecasting practices, and governance principles, participants will contribute more effectively to successful project execution, improved resource utilization, reduced project risks, and sustainable organizational performance.

FAQ

Head Office: +44 7480 775 526
Email: sales@blackbird-training.com
Website: www.blackbird-training.com

1. What is Project Control, and why is it important?

Project Control is the systematic process of monitoring, measuring, analyzing, and managing project scope, cost, schedule, resources, risks, and performance. It is important because it enables organizations to identify deviations early, control project costs, manage schedules, forecast outcomes, and support informed management decisions throughout the project lifecycle.

2. How does the course cover cost and schedule control?

The course provides practical coverage of project budgeting, cost baselines, expenditure monitoring, cost variance analysis, forecasting, schedule development, progress measurement, delay identification, and schedule performance analysis. Participants will learn how cost and schedule information can be integrated to provide a comprehensive view of project performance.

3. Will I learn Earned Value Management?

Yes. The course introduces the core principles of Earned Value Management, including Planned Value, Earned Value, Actual Cost, Schedule Performance Index, and Cost Performance Index. Participants will learn how these indicators can be used to evaluate project performance and forecast potential cost and schedule outcomes.

4. Does the course address project risks and changes?

Yes. Participants will learn how to establish effective change control procedures, assess the impact of changes on project scope, cost, schedule, resources, and contractual requirements, and integrate risk monitoring into Project Control activities. The course also addresses corrective and preventive actions for managing project deviations.

5. Who should attend this Project Control course?

This course is designed for project managers, project control professionals, project planners, project engineers, cost engineers, planning engineers, commercial professionals, project coordinators, contract professionals, quantity surveyors, risk professionals, consultants, contractors, and senior professionals involved in project planning, monitoring, cost control, scheduling, performance management, and project governance.

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