



Construction Cost Analysis and Control Course



AGILE LEADERS
Training Center

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Overview

Construction Cost Analysis and Control Course is a five-day intermediate course for cost engineers, quantity surveyors, project-controls professionals, construction managers, commercial managers, estimators, engineers, and client representatives. Participants connect the cost breakdown structure, baseline budget, commitments, actual cost, quantities, productivity, variance analysis, estimate at completion, cash-flow forecasting, change impacts, cost reporting, and corrective action. Agile Leaders Training Center presents a practical cost-engineering workflow that produces a Construction Cost Analysis and Control Pack.

Who Should Attend

- Cost engineers and quantity surveyors responsible for construction cost performance
- Project-controls and commercial professionals managing budgets, commitments, and forecasts
- Construction managers and engineers accountable for quantities, resources, and productivity
- Estimators who support estimate-to-budget reconciliation and cost baselines
- Client representatives who review cost reports, forecasts, changes, and corrective actions

The course assumes participants understand basic construction project delivery. It focuses on cost engineering and operational control rather than financial statements, revenue recognition, initial estimating methods, or earned-value management as a standalone discipline.

Departments and Industries

The course supports construction cost management across capital-project environments.

- Building, infrastructure, utilities, and industrial construction
- Project controls, cost engineering, and quantity surveying functions
- Commercial, contracts, procurement, and finance interfaces
- Engineering consultancies, contractors, developers, and client organizations
- Energy, transport, property, facilities, and public works portfolios

Learning Objectives

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



- Structure a construction cost breakdown and reconcile estimates with the baseline budget
- Analyze commitments, actual cost, accruals, quantities, unit costs, and productivity
- Diagnose cost variances and document their operational causes
- Prepare bottom-up estimates to complete, estimates at completion, and cash-flow forecasts
- Evaluate change impacts, trend exposure, and corrective-action options
- Build a Construction Cost Analysis and Control Pack

Course Agenda

Day 1: Cost Baselines and Control Structure

- Project Cost Breakdown Structure and Coding Map
- Estimate-to-Budget Reconciliation and Baseline Sheet
- Control Account, Cost Owner, and Responsibility Matrix
- Direct, Indirect, Contingency, and Reserve Classification
- Cost Control Calendar and Data-Cutoff Protocol

Day 2: Commitments Actuals and Productivity

- Commitment Register and Open-Order Exposure Review
- Actual-Cost, Accrual, and Invoice Reconciliation
- Labor, Plant, Material, and Subcontract Cost Ledger
- Quantity Installed and Unit-Cost Analysis Sheet
- Productivity Rate and Resource-Efficiency Dashboard

Day 3: Variance Forecasting and Cash Flow

- Budget-to-Actual Cost Variance Analysis
- Estimate-to-Complete Bottom-Up Forecast
- Estimate-at-Completion and Forecast-Margin Bridge
- Construction Cash-Flow Curve and Expenditure Timing Model
- Forecast Assumption, Risk, and Sensitivity Register

Day 4: Change Impacts Reporting and Action

- Change Cost Impact and Baseline-Control Workflow
- Trend Register and Potential-Cost Exposure Log
- Cost Report, Variance Narrative, and Exception Dashboard
- Corrective-Action Option and Decision Matrix
- Cost Review Meeting Pack and Accountability Tracker



Day 5: Construction Cost Control Practice

- Exercise: Reconcile Baseline, Commitments, and Actual Costs
- Exercise: Analyze Unit Costs and Productivity Variances
- Exercise: Refresh Final-Cost and Cash-Flow Forecasts
- Exercise: Evaluate Change Impacts and Corrective Actions
- Capstone Exercise: Construction Cost Analysis and Control Pack

Practical Exercises

The course uses suggested activities to turn project cost data into traceable control decisions.

- Suggested activity: reconcile an estimate, approved budget, commitments, accruals, invoices, and actual cost at a reporting cutoff.
- Suggested activity: compare installed quantities, resource consumption, unit costs, and productivity to identify variance drivers.
- Suggested activity: prepare a bottom-up estimate to complete and test estimate-at-completion and cash-flow assumptions.
- Suggested activity: assess a construction change, update trend exposure, and select a corrective action with an accountable owner.

FAQs

Who suits the Construction Cost Analysis and Control Course?

It suits cost engineers, quantity surveyors, project-controls professionals, construction managers, commercial managers, estimators, engineers, and client representatives who use construction cost information to guide delivery decisions.

How does construction cost control differ from construction accounting?

Construction cost control connects budgets to quantities, resources, productivity, commitments, forecasts, changes, and corrective actions. Construction accounting concentrates on financial records, reporting rules, and company-level statements.

What is the purpose of a construction cost breakdown structure?

It organizes scope and expenditure into consistent control codes so teams can reconcile budgets, commitments, actual cost, quantities, forecasts, and responsibility at useful levels.

How is estimate at completion prepared?

Teams combine incurred cost with a reasoned estimate to complete, testing remaining quantities, productivity, resources, commitments, changes, risks, and forecast assumptions.



What does the capstone deliverable contain?

The Construction Cost Analysis and Control Pack connects a coded baseline, commitment and actual-cost reconciliation, productivity analysis, variance explanations, final-cost forecast, cash-flow view, change exposure, and corrective-action tracker.

Conclusion

Participants take back a Construction Cost Analysis and Control Pack that converts construction quantities, resources, commitments, actual cost, variances, forecasts, cash flow, and change exposure into an accountable decision trail. The pack supports disciplined cost performance reviews without replacing financial accounting, contract approvals, or project-specific authority.



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