APPLYING PROJECT CONTROL



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Introduction

Applying Project Control examines how control practitioners put planning, progress measurement, cost control, and reporting into daily practice. This Training Course covers the practical mechanics of building and running project controls rather than the theory alone. Participants study the PMBOK Guide schedule and cost management processes, AACE International Recommended Practices for estimating and progress measurement, the critical path method with total and free float, work and cost breakdown structures, control accounts, weighted milestone and physical percent complete progress methods, earned value management with SPI, CPI and TCPI, earned schedule, Estimate at Completion methods, S-curves and cash flow, commitment and accrual tracking, the DCMA 14-point schedule assessment, Statistical Process Control with control charts and run rules, and change control board operation. Furthermore, the programme connects control mechanics to decisions through hands-on scheduling labs, progress measurement workshops, and reporting simulations. As a result, delegates leave able to run the control cycle week by week.

Applying Project Control Course Objectives

- Define the project control cycle and the practitioner's responsibilities.
- Apply PMBOK Guide schedule and cost management processes.
- Apply AACE International Recommended Practices in daily practice.
- Build work and cost breakdown structures that align.
- Develop and maintain a schedule with correct logic and float.
- Apply the DCMA 14-point assessment to schedule quality.
- Measure progress with weighted milestones and physical percent complete.
- Apply earned value management with SPI, CPI, and TCPI.
- Track commitments, accruals, and cost postings accurately.
- Perform monthly control cycle updates and progress reporting.

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Course Methodology

- Interactive workshops using real schedules and cost control files.
- Schedule building and health check labs.
- Progress measurement and earned value exercises.
- Cost posting, commitment, and accrual tracking workshops.
- Monthly control cycle and reporting simulations.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Project control engineers and planners.
- Planning and scheduling engineers.
- Cost engineers and quantity surveyors.
- Project controls administrators.
- PMO analysts supporting controls functions.
- Site engineers responsible for progress records.
- Staff moving into project control roles.

Applying Project Control Course Outlines

Day 1: The Control Cycle and Framework

- The project control cycle: plan, measure, compare, act.
- PMBOK Guide schedule and cost management processes.
- AACE International Recommended Practices overview.
- Work breakdown structure and cost breakdown structure alignment.

- Control accounts and the control account manager role.
- Common failures: unlinked logic, late updates, untraceable costs.
- Building the control framework pack.

Day 2: Building and Maintaining the Schedule

- Activity definition and network logic construction.
- Duration estimating and productivity factor application.
- Total float, free float, and critical path verification.
- Constraints, calendars, and open-ended activity checks.
- The DCMA 14-point schedule assessment criteria.
- Schedule updating practice and progress loading.
- Building the schedule and health pack.

Day 3: Progress Measurement in Practice

- Progress measurement methods: weighted milestones and physical percent complete.
- Rules of credit and their consistency requirements.
- Percent complete versus percent spent distinction.
- Physical progress verification and site records.
- Subcontractor progress validation.
- Productivity measurement and reporting.
- Building the progress measurement pack.

Day 4: Cost Control and Earned Value

- Commitments, accruals, and cost postings.
- Cost variance analysis and forecast development.

- Earned value management: planned value, earned value, actual cost.
- Schedule performance index, cost performance index, and TCPI.
- Estimate at Completion methods and their selection.
- S-curves and cash flow forecasting.
- Building the cost and earned value pack.

Day 5: Reporting, Change, and Control Integrity

- Monthly control cycle report structure.
- Dashboards, exception reporting, and narratives.
- Change control board operation and baseline revisions.
- Statistical Process Control with control charts and run rules.
- Data integrity: late changes and progress manipulation.
- Interfaces with contracts, procurement, and finance.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing Applying Project Control, participants will have acquired a practical command of schedule development and maintenance, progress measurement, cost posting and control, earned value analysis, monthly reporting, and change control operation. They will know how to build a schedule with defensible logic, measure progress with methods both parties accept, and produce a monthly control report that stands up to challenge. In addition, the course prepares delegates to protect control integrity when schedule pressure arrives. As a result, they return to work ready to run the project control cycle week by week. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

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FAQs for the Applying Project Control course

Q1 What is the "Applying Project Control" course about?

It is a five-day programme on putting planning, progress measurement, cost control, and reporting into daily practice. It covers the PMBOK Guide schedule and cost processes, AACE Recommended Practices, critical path and float analysis, the DCMA 14-point assessment, progress measurement methods, earned value management, cost postings, and monthly control reporting.

Q2 What are the key benefits of the "Applying Project Control" course?

Participants gain the ability to build a schedule with defensible logic, measure progress with methods both parties accept, and produce a monthly control report that stands up to challenge. They also learn to protect control integrity when schedule pressure arrives.

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Q3 What skills will I gain from the "Applying Project Control" course?

Control framework work with PMBOK schedule and cost process application, AACE Recommended Practice use, work and cost breakdown structure alignment, and control account design, schedule work with network logic construction, duration estimating and productivity factor application, total float, free float and critical path verification, constraint and calendar checking, DCMA 14-point assessment, and schedule updating practice, progress measurement with weighted milestone and physical percent complete methods, rules of credit design, percent complete versus percent spent analysis, physical progress verification, subcontractor progress validation, and productivity measurement, and cost and reporting with commitment, accrual and cost posting tracking, cost variance analysis, earned value interpretation, SPI, CPI and TCPI calculation, Estimate at Completion method selection, S-curve and cash flow forecasting, monthly report structuring, dashboard design, change control board operation, control chart application, run rule interpretation, and data integrity protection.

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Q4 What tools, methods, or standards are covered in the "Applying Project Control" course?

The course covers the project control cycle across plan, measure, compare and act, PMBOK Guide schedule and cost management processes, AACE International Recommended Practices, work breakdown structure and cost breakdown structure alignment, control accounts and the control account manager role, common failures across unlinked logic, late updates and untraceable costs, activity definition and network logic construction, duration estimating and productivity factor application, total float, free float and critical path verification, constraints, calendars and open-ended activity checks, the DCMA 14-point schedule assessment criteria, schedule updating practice and progress loading, progress measurement methods across weighted milestones and physical percent complete, rules of credit and their consistency requirements, percent complete versus percent spent distinction, physical progress verification and site records, subcontractor progress validation, productivity measurement and reporting, commitments, accruals and cost postings, cost variance analysis and forecast development, earned value management across planned value, earned value and actual cost, schedule performance index, cost performance index and TCPI, Estimate at Completion methods and their selection, S-curves and cash flow forecasting, monthly control cycle report structure, dashboards, exception reporting and narratives, change control board operation and baseline revisions, Statistical Process Control with control charts and run rules, data integrity across late changes and progress manipulation, and interfaces with contracts, procurement and finance.

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Q5 How is the "Applying Project Control" course applied in real-world practice?

Delegates apply it through control frameworks, work breakdown structures, cost breakdown structures, control account registers, control account manager assignments, schedule networks, dependency logs, activity lists, duration estimates, productivity factor records, float reports, critical path analyses, constraint logs, calendar definitions, DCMA 14-point assessment reports, schedule updates, progress loading records, progress measurement plans, weighted milestone registers, rules of credit documents, physical percent complete records, site progress records, subcontractor progress reports, productivity reports, commitment registers, accrual schedules, cost postings, cost variance reports, earned value reports, planned value registers, actual cost reports, SPI and CPI calculations, TCPI models, Estimate at Completion forecasts, S-curves, cash flow forecasts, monthly control reports, control dashboards, exception reports, change requests, change control board minutes, baseline revision records, control charts, run rule assessments, data integrity checklists, and interface protocols with contracts, procurement and finance. They also use it to run the monthly control cycle and to present progress to project managers and clients.