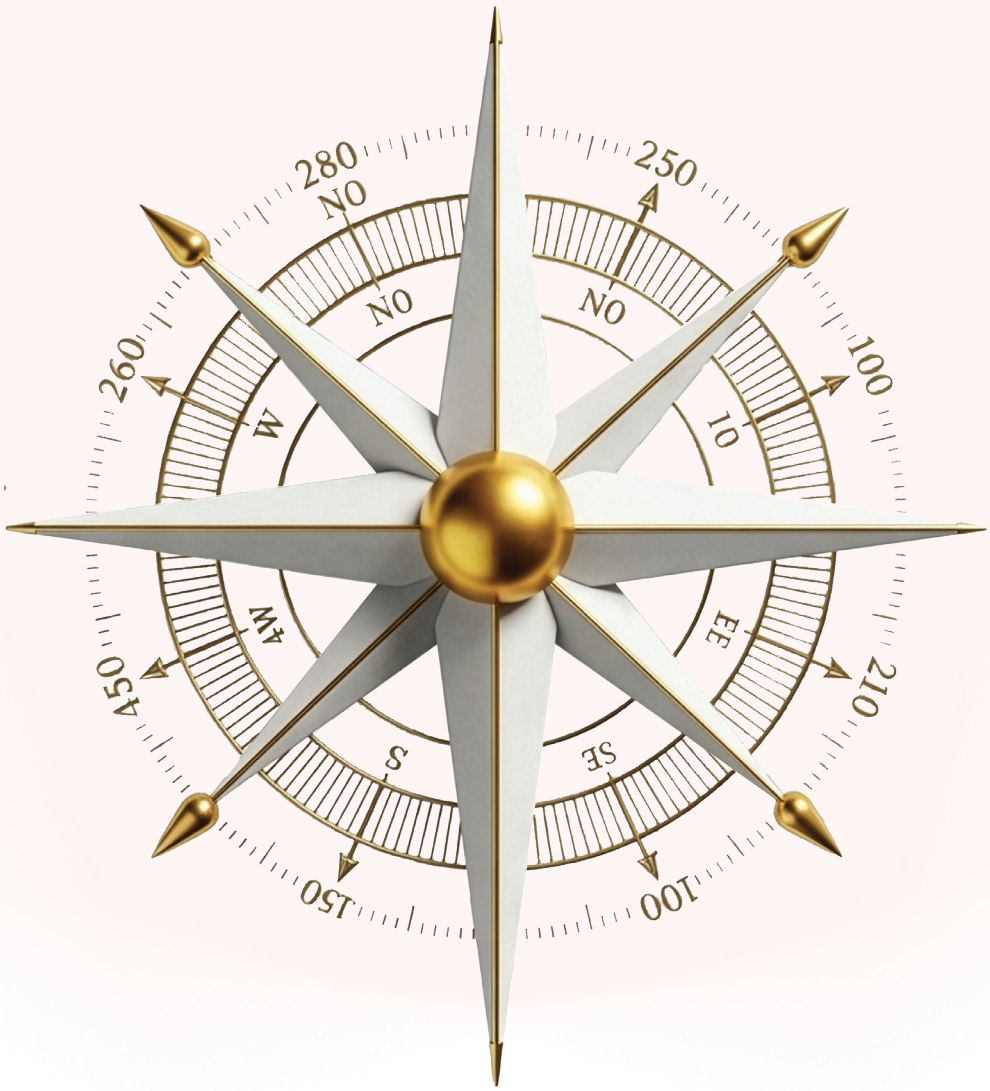
CONCEPT

Advanced Project Management: Integrated Lifecycle Planning, Delivery and Control



Advanced Project Management: Integrated Lifecycle Planning, Delivery and Control

Introduction:

Many organisations run projects with disconnected plans, where scope, schedule, cost, quality and stakeholder decisions are made in separate places and change is absorbed without control. Advanced Project Management addresses this by treating the project lifecycle as one integrated system, from business case and charter through baselines, execution, change control and closure. The course draws on the PMBOK Guide principles and performance domains and on ISO 21502:2020 guidance, and shows how to tailor predictive, adaptive and hybrid approaches to each project. Participants leave with an Integrated Project Management Plan and Control Pack built for a live project.

Course Objectives:

- Structure a project from business case and charter to an approved set of integrated scope, schedule and cost baselines.
- Tailor predictive, adaptive or hybrid delivery approaches to the complexity, uncertainty and constraints of a given project.
- Apply PMBOK Guide principles and performance domains and ISO 21502:2020 guidance to day-to-day project decisions.
- Operate integrated change control, quality assurance and procurement interfaces without losing baseline integrity.
- Lead stakeholders and project teams through structured engagement, communication and conflict resolution plans.
- Measure project performance with a KPI set, forecast trends and close projects with a documented handover and lessons learned.

Target Audience:

- Professionals leading medium to large projects end to end, accountable for scope, time, cost and quality outcomes
- Engineering and technical leads responsible for planning and coordinating multi-discipline project work packages
- Project controls and planning professionals responsible for baselines, progress reporting and change records
- Delivery and operations managers responsible for turning approved initiatives into completed projects
- Contract and procurement coordinators responsible for supplier interfaces on project delivery
- Functional managers who sponsor projects or supply resources to project teams

Course Outline:

Day 1: Project Lifecycle Foundations and Value Context

- Project Life Cycle Models: Predictive, Iterative, Incremental and Adaptive
- Project Business Case and Value Proposition Review
- Organisational Structures and Project Manager Authority Levels
- Project Success Criteria and Constraint Trade-Off Matrix
- Enterprise Environmental Factors and Organisational Process Assets Scan

Day 2: PMBOK Guide and ISO 21502 Frameworks

- PMBOK Guide Eighth Edition Principles Applied to Delivery Decisions
- PMBOK Guide Performance Domains Mapped to Project Phases
- ISO 21502:2020 Project Management Practices and Lifecycle Guidance
- Tailoring Framework for Predictive, Adaptive and Hybrid Approaches
- Project Charter Development and Initiation Checklist

Day 3: Integrated Scope, Schedule and Cost Planning

- Requirements Traceability Matrix and Project Scope Statement
- Work Breakdown Structure and WBS Dictionary Construction
- Activity Sequencing with Precedence Diagrams and Milestone Plans
- Three-Point Estimating and Bottom-Up Cost Baseline
- Resource Histograms and RACI Responsibility Assignment Matrix

Day 4: Project Tools, Data and Performance Baselines

- Performance Measurement Baseline Integrating Scope, Time and Cost
- Scheduling Software Set-Up: Calendars, Resources and Baselines
- Kanban Boards and Backlog Management for Adaptive Work Packages
- Project Status Dashboards and Variance Reporting Templates
- Configuration Management and Document Control Registers

Day 5: Week-One Integration: Guided Planning Case Study

- Case Study: Infrastructure Facility Charter and Scope Baseline
- Case Study: Healthcare Service Launch WBS and Schedule Build
- Case Study: Manufacturing Line Upgrade Cost and Resource Plan
- Peer Review of Integrated Baselines Against a Planning Quality Checklist
- Consolidated Project Management Plan Draft and Gap Log

Day 6: Complex Project Delivery and Hybrid Execution

- Project Complexity Assessment Matrix and Delivery Approach Selection
- Hybrid Delivery Models: Stage Plans Combined with Iterative Sprints
- Multi-Contractor Interface Management and Interface Registers
- Procurement Strategy Selection and Contract Type Risk Allocation
- Rolling-Wave Planning and Progressive Elaboration Techniques

Day 7: Quality, Change Control and Project Controls Assurance

- Quality Management Plan and Cost of Quality Analysis
- Integrated Change Control Process and Change Request Log
- Contingency and Management Reserve Decisions at Baseline Level
- Compliance Obligations Register for Contractual and Statutory Requirements
- Quality Audits and Deliverable Acceptance Criteria

Day 8: Stakeholder Leadership, Team Dynamics and Communication

- Stakeholder Power-Interest Grid and Engagement Assessment Matrix
- Communications Management Plan and Reporting Cadence Design
- Project Team Charter and Working Agreements
- Conflict Resolution Techniques and Negotiation Planning Sheets
- Change Readiness Assessment for Project Outputs and Users

Day 9: Project Performance Measurement and Continuous Improvement

- Project KPI Framework: Schedule, Cost, Quality and Stakeholder Indicators
- Schedule and Cost Performance Indices for Trend Forecasting
- Benchmarking Delivery Against Historical Project Reference Data
- Retrospectives and Lessons Learned Knowledge Base
- Project Closure Checklist, Handover Protocol and Final Report

Day 10: Capstone: Integrated Project Management Plan and Control Pack

- Capstone Brief: Selecting a Live Project from the Participant's Organisation
- Building the Integrated Project Management Plan and Control Pack
- Tailoring Rationale and Delivery Approach Justification
- Plan Presentation to a Simulated Steering Committee
- Peer Critique and Personal Implementation Roadmap

Skills You Will Gain:

- Integrated Baseline Development
- Delivery Approach Tailoring
- Work Breakdown Structure Design
- Integrated Change Control
- Multi-Contractor Interface Coordination
- Stakeholder Engagement Planning
- Project Performance Forecasting
- Project Closure and Handover

Why Attend This Course:

- Replace fragmented project plans with one set of baselines that scope, schedule, cost and quality decisions all refer to.
- Gain a tested method for choosing between predictive, adaptive and hybrid delivery instead of defaulting to one approach.
- Move from week-one planning disciplines to week-two complex delivery, contractor interfaces, controls and closure in one sequence.
- Return with an Integrated Project Management Plan and Control Pack drafted for a live project in your organisation.

Conclusion:

Projects rarely fail on a single discipline; they fail where planning, control and people decisions stop connecting. This course from Core Concept follows the project lifecycle in order, first building integrated baselines and then applying them to complex, multi-stakeholder delivery with cases drawn from infrastructure, healthcare and manufacturing. By the end, participants can tailor an approach, hold baselines under change, lead stakeholders through delivery and close projects with evidence, supported by a plan and control pack ready for use at work.