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COURSE BROCHURE

# Advancing Project Success with AI: Delivery and Control Course

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# Advancing Project Success with AI: Delivery and Control Course

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Advancing Project Success with AI: Delivery and Control is a 1-week training course for project managers, PMO staff, project controls and planning professionals, and each participant leaves with an AI Project Controls Blueprint for one live project. Sponsors now expect earlier warnings of slippage and overspend than monthly reports can give. The course is delivered by Jupiter Prime Training.

## Why Advancing Project Success with AI Matters Now

Three forces shape project controls today. Scheduling, cost and timesheet systems now hold years of history that machine learning can mine for slippage patterns. Sponsors and boards want forecasts with confidence ranges, not single completion dates. PMOs face pressure to cut reporting effort while covering more projects. Organisations that use AI well in controls spot critical path drift and cost overruns weeks earlier and redeploy people before crises; those that do it badly trust opaque forecasts or drown in automated dashboards nobody reads. The course applies the NIST AI Risk Management Framework AI RMF and ISO/IEC 42001 to AI-supported project decisions.

## Who Gains Most from Advancing Project Success with AI

- Professionals who lead projects and answer to sponsors for time, cost and scope
- PMO staff who set reporting standards and consolidate portfolio status
- Project controls specialists who run earned value, cost and change control
- Planners and schedulers who build and maintain baseline schedules
- Resource coordinators who balance people and equipment across concurrent projects

A PMO or project controls function gains most when planners, cost controllers and project managers attend together and agree one forecasting approach.

## Advancing Project Success with AI Capabilities

Participants practise turning schedule, cost and risk records into forward-looking control signals that sponsors can act on.

- Assess the data quality of schedules, cost ledgers and risk registers — PMO standards
- Apply machine learning forecasts to completion dates and estimate at completion — sponsors
- Calculate earned value trends and predicted CPI and SPI ranges — project boards
- Design an automated status report that flags exceptions, not routine noise — portfolio leads
- Weigh AI tools for the PMO against integration, cost and explainability — procurement and IT
- Specify human review points for AI-supported project decisions — governance boards

## Key Advancing Project Success with AI Terms

- Earned value management EVM — a method comparing planned value, earned value and actual cost to measure schedule and cost performance.
- Estimate at completion EAC — the forecast total cost of a project, based on spending and performance to date.
- Schedule risk analysis — simulating many possible activity durations to produce a range of likely completion dates.
- P80 date — the completion date a project has an eighty per cent chance of meeting under a probabilistic forecast.
- Anomaly detection — machine learning that flags unusual patterns in progress, cost or timesheet records for investigation.
- Resource levelling — adjusting task timing so people and equipment are not over-allocated across activities or projects.

## Advancing Project Success with AI Day by Day

### Day 1: Project Controls in an AI Era

- Project Controls Maturity Scan — Where AI Adds Earliest Warning
- Schedule, Cost and Risk Data Sources — Fitness for Forecasting
- Construction and IT Project Case Comparison — Different Failure Patterns
- Sponsor and Board Information Needs — Ranges Instead of Single Dates
- Data Cleansing for Historical Projects — Building a Training Set

### Day 2: Forecasting Schedule and Cost

- Machine Learning Duration Forecasts — Predicting Activity Overruns
- Schedule Risk Analysis and P50/P80 Dates — Setting Credible Milestones
- Earned Value Trend Prediction — Forward CPI, SPI and EAC
- Critical Path Drift Detection — Spotting Float Erosion Early
- Forecast Explainability — Showing Sponsors Why a Date Moved

### Day 3: Risk, Change and Resources

- Risk Register Text Mining — Surfacing Emerging Threats From Logs
- Anomaly Detection on Progress and Timesheets — Questioning Reported Status
- Change Request Impact Estimation — Faster Cost and Time Assessment
- Resource Levelling With Optimisation Models — Balancing Shared Specialists
- Scenario Comparison for Recovery Options — Crash, Fast-Track or Re-Scope

### Day 4: Reporting, Tools and Oversight

- Automated Status Reporting — Exception-Based Narratives for Steering Groups
- Portfolio Dashboards With Predictive Flags — Prioritising Intervention
- PMO Tool Selection Criteria — Integration, Licensing and Explainability
- NIST AI RMF Checks for Project Decisions — Accountability and Overrides
- Data Ownership and Access Rules — Protecting Commercial Project Information

## Day 5: Practising the AI Project Controls Blueprint

- Live Project Forecast Exercise — Applying Duration and EAC Models
- Steering Group Simulation — Presenting Ranges and Recovery Options
- Tool Shortlist Scoring — Testing Vendors Against PMO Criteria
- Peer Challenge of Human Review Points — Strengthening Decision Controls
- AI Project Controls Blueprint — Final Version for PMO Approval

## Applying Advancing Project Success with AI After the Course

- Run a schedule risk analysis on one live project and report P50 and P80 dates to the sponsor.
- Replace one manual status report with an exception-based automated version and track preparation time.

## Advancing Project Success with AI Questions FAQ

### What does advancing project success with AI mean and why does it matter now?

Advancing project success with AI means using forecasting, anomaly detection and automation to control schedule, cost and risk earlier. It matters now because sponsors expect confidence ranges and early warnings, and project systems finally hold enough history to train useful models.

### Which roles gain most from advancing project success with AI training?

Project managers, PMO staff, project controls specialists and planners gain most. Resource coordinators also benefit, particularly when a whole controls function attends.

### How does advancing project success with AI differ from a general AI in project management course?

It concentrates on delivery control: earned value forecasting, schedule risk, anomaly detection and PMO reporting. A general AI in project management course surveys assistants for planning and communication; this course goes deeper into the numbers that steer projects.

### What do you bring back from advancing project success with AI training?

You bring back a controls blueprint for one live project. It sets out data sources, forecasting models, reporting rules, tool criteria and human review points ready for PMO approval.

## Advancing Project Success with AI: The Way Forward

The AI Project Controls Blueprint first informs which project receives predictive forecasting and exception reporting. Project managers, PMO leads and controls specialists use it to align data, models and review points. After the first reporting cycle, forecast accuracy and the thresholds for exception flags deserve another look, since real outcomes show where models overreacted or missed slippage.