
AI for Project Controls and Contract Risk Leadership Training Course

9 – 13 May 2027
Amman





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Programme Summary

AI for project controls and contract risk leadership is the subject of this five-day training course for project, PMO and commercial leaders at advanced level, culminating in an AI project and contract controls roadmap for one portfolio. Delays, overruns and disputes often show in project data long before they reach the board. The approach moves from forecasting and early warning, through contract review and claims analytics, to governance and adoption. Mars Training Centre UK delivers this programme in AI for project controls.

The Business Case

Project teams hold schedules, cost reports, correspondence and contracts that AI can now analyse at scale. Used well, these tools surface slippage earlier and flag obligations before they are missed; used poorly, they produce confident forecasts on weak data. Leaders who set the rules for AI in project and contract decisions gain earlier warning without losing accountability.

- Forecast Accuracy at Completion: Improves as machine learning supplements earned value trends.
- Missed Contractual Obligations: Fall as AI extracts notice periods and conditions into tracked registers.
- Claims and Dispute Exposure: Reduces as change and delay events are analysed as they arise.

Principles and Evidence Base

- Earned Value Management: Performance indices provide the baseline that AI forecasts must improve on in Session 2.
- PMI Standard for AI in Project Management: Its guidance frames the use-case choices in Session 1.
- ISO/IEC 42001: Its requirements shape controls for project AI in Session 4.
- Risk Register Practice: Structured scoring and ownership of risks underpin the AI-assisted risk work in Session 2.

Intended Participants

- Leaders accountable for delivery of capital projects or programme portfolios.
- Heads of project management offices who set reporting and controls standards.
- Senior contracts and commercial leaders responsible for obligations, change and claims.
- Executives who sponsor digital tools for project delivery.

The programme serves project delivery, PMO, contracts and commercial functions in construction, energy, infrastructure and public sector programmes.



Learning Outcomes

1. Participants will be able to evaluate predictive schedule and cost forecasts against earned value baselines.
2. Participants will be able to design early warning indicators for delay and overrun across a portfolio.
3. Participants will be able to assess AI contract review outputs for accuracy and missed obligations.
4. Participants will be able to apply change and claims analytics to strengthen a commercial position.
5. Participants will be able to construct governance rules for AI in project and contract decisions.
6. Participants will be able to justify an AI controls roadmap to a project sponsor.

Programme Structure

Day 1: AI for Project Controls: Opportunities and Limits

Where can AI improve project controls, and where does it mislead?

- Earned Value Management Baseline and Performance Indices
- AI Use Cases Across the Project and Contract Lifecycle
- Project Data Sources: Schedules, Cost Reports and Correspondence
- Data Quality Assessment for Project Records
- Controls Maturity Self-Assessment for the Portfolio

Day 2: Predictive Forecasting and Early Warning

How are delay and overrun detected before they become visible in reports?

- Machine Learning Forecasts of Schedule and Cost at Completion
- Reference Class Data From Completed Projects
- Early Warning Indicators and Alert Thresholds
- AI-Assisted Risk Identification and Risk Register Updates
- Generative AI for Project Status Reporting

Day 3: AI Contract Review and Claims Analytics

How can AI read contracts and correspondence faster without missing what matters?

- Clause Extraction and Obligation Registers
- Notice Periods, Time Bars and Condition Tracking
- Change Order Pattern Analysis
- Delay Event Records and Claims Evidence Assembly
- Accuracy Testing of AI Contract Review Outputs



Day 4: Governance and Accountability for Project AI

Who is accountable when an AI forecast or contract summary is wrong?

- ISO/IEC 42001 Controls for Project and Commercial AI
- Confidentiality and Data Handling for Contract Documents
- Human Review Points for Forecasts and Contract Advice
- Vendor and Tool Selection Criteria for PMO Platforms
- Performance Monitoring of Forecast and Review Models

Day 5: Applying AI for Project Controls and Contract Risk

Is the controls roadmap realistic and ready for sponsor approval?

- Selecting Day 2 Early Warning Indicators for the Portfolio
- Setting Day 3 Obligation Register Scope for Live Contracts
- Embedding Day 4 Review Points in PMO Procedures
- Adoption Plan for Controls, Commercial and Delivery Teams
- Completing the AI Project and Contract Controls Roadmap

Methodology

The programme combines data workshops with case analysis. Participants compare AI forecasts with earned value trends, test contract review outputs against a marked-up contract and draft governance rules. Cases are drawn from building construction, energy plant delivery and transport infrastructure.

- Suggested activity: Comparing an AI completion forecast with an earned value estimate for the same project.
- Suggested activity: Checking an AI-generated obligation register against the source contract.
- Suggested activity: Drafting human review points for an AI status report.

Capstone Output

Each participant completes an AI project and contract controls roadmap for one portfolio. It contains selected use cases, early warning indicators, an obligation register scope, governance rules and an adoption plan. It is presented to the sponsor as the basis for a first deployment in the PMO.

Frequently Asked Questions

Is AI for project controls training suitable for senior project and commercial leaders?

Yes. It is set at advanced level for leaders who own delivery or commercial outcomes and assumes no programming background.



Which standards does the AI for project controls programme rest on?

It rests on earned value management, the PMI standard for AI in project management, ISO/IEC 42001 and risk register practice.

How is the roadmap from AI for project controls training used at work?

You can use it to agree a first PMO deployment, define early warning indicators and set review rules for AI outputs.

How does AI for project controls differ from a general project management programme?

It focuses on governing AI for forecasting, contract review and claims evidence, while general programmes cover delivery methods.