

TECHNICAL WORKSHOP

Keeping Projects on Track: Applying Constant Control Systems in Project Controls

Brought to you by Project Controls Expo Meet
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Date

21st July 2026

Time

9:00 am – 17:00 pm

Venue

ibis Adelaide

What's Included in the Technical workshop

Certificate of Participation

Recognition for completing the workshop.

Course Overview

Keeping Projects on Track: Constant Control Systems in Project Controls



Explore how constant control systems in Project Controls turn reporting into active management, improving predictability & performance.

This workshop shows how constant control systems transform Project Controls from reporting to active management, using feedback, corrective action, and stability principles to improve cost, schedule, and performance predictability in complex projects.

By the end of this session, participants will understand from first principles:

- 01** Understand why control systems matter in projects and how projects operate as dynamic systems.
- 02** Explain the role of feedback in Project Controls, including Earned Value as the feedback engine and CPI and SPI as error signals.
- 03** Understand the importance of forecasting, including EAC and ETC, and why forecast credibility is the real measure of maturity.
- 04** Recognise governance as the controller, including tolerances, escalation mechanisms, and management by exception.
- 05** Assess control maturity, including reactive versus predictive control environments and what "good" control systems look like in organisations.

Approach

Technical Workshop – A Comprehensive One Full-Day Deep-Dive

This session reframes Project Controls as an active control system rather than a reporting function. It explores how constant control system principles such as feedback loops, variance detection, corrective action, and stability principles translate into cost, schedule, and performance management. The discussion will demonstrate how control theory concepts such as feedback loops, lag, gain, and corrective response can be applied in real project environments to manage uncertainty, prevent instability, and improve predictability across complex projects. It also highlights how these principles underpin Earned Value, forecasting, risk management, and change control in practical project controls applications.



What You'll Get

- A clearer understanding of why many organisations have reporting rather than true Project Controls, and how control systems improve project stability.
- A practical perspective on balancing intervention, understanding why over-intervention can be as dangerous as inaction in project environments.
- Certificate of participation
- Insights into the risks of weak or delayed feedback, including why late detection is a design failure, not a delivery failure.
- Frameworks and discussion points you can take back to your organisation to strengthen predictability and control maturity in Project Controls.



Who Should Attend

- Senior Project Controls Professionals
- PMO Leaders
- Delivery leaders seeking advanced discussion on control system design, maturity, and performance optimisation.



Prerequisites

Attendees should:

- Understand EVM, forecasting, and baseline management
- Want discussion beyond “how to calculate CPI”
- Be interested in system design and maturity
- Value practical, peer-based insights
- Appreciate frameworks they can take back to their organisations

Event Agenda and Schedule

<h2>Module 0</h2>	<h3>The Core Philosophy (The "Why")</h3> <ul style="list-style-type: none"> ➤ Defining Integrated Project Controls: The seamless fusion of Scope, Schedule, and Cost into a single, data-driven ecosystem. ➤ The Importance of Integration: Why "Siloed" data leads to project failure. Understanding that a change in schedule is a change in cost. ➤ AACE Framework Overview: Introduction to Total Cost Management (TCM)—moving from "Accounting" to "Engineering" outcomes. ➤ The Goal: Moving the organization from Reactive (fixing mistakes) to Predictive (preventing them).
<h2>Module 1</h2>	<h3>Establishing the Baseline (The Architecture)</h3> <ul style="list-style-type: none"> ➤ WBS & CBS Integration: Mapping the Work Breakdown Structure to the Cost Breakdown Structure within the Control System. ➤ The Basis of Estimate (BOE): Documenting assumptions, technical scope, and methodology (AACE RP 34R-05). ➤ System Initialization: Uploading the Approved Budget and capturing the Original Baseline (BLO) snapshot. ➤ Time-Phased Budgeting: Integrating the Schedule (P6) with the Cost Tool to generate the Planned Value (PV) curve.
<h2>Module 2</h2>	<h3>Managing the Baseline (The Pulse)</h3> <ul style="list-style-type: none"> ➤ Commitment Management: Interfacing the ERP (SAP/Oracle) with the Cost Tool to track Purchase Orders and Contracts. ➤ VOWD (Value of Work Done): Implementing accrual-based progress measurement using AACE Rules of Credit (RP 25R-03). ➤ The System "True-up": Reconciling System VOWD against ERP Actual Costs (AC) to eliminate "Accounting Lag." ➤ Variance Analysis: Utilizing automated dashboards to identify CV (Cost Variance) and CPI (Cost Performance Index). ➤ Integrated Change Control: Transitioning from "Trend Notices" to "System-Approved Change Orders" to protect the baseline.
<h2>Module 3</h2>	<h3>Forecasting & Budget Control (The Foresight)</h3> <ul style="list-style-type: none"> ➤ Dynamic EAC Generation: Calculating the Estimate at Completion using system-automated AACE formulas. ➤ The ETC Challenge: Conducting "Bottom-Up" re-forecasting versus statistical extrapolation (AACE RP 80R-13). ➤ Commitment-to-Forecast Reconciliation: Auditing "Uncommitted Budget" against "Anticipated Spend" to find hidden gaps. ➤ TCPI Analysis: Determining the efficiency required (TCPI) to finish within the remaining budget.
<h2>Module 4</h2>	<h3>Closing the Baseline (The Legacy)</h3> <ul style="list-style-type: none"> ➤ Financial Reconciliation: Closing out all open Commitments and purging remaining Accruals/VOWD in the system. ➤ Data Normalization: Converting "Actuals" into unit rates and benchmarks for the Historical Database (AACE RP 12R-89). ➤ Forensic Post-Mortem: Analyzing the "Delta" between the Baseline and the Final Outcome.

Key Takeaways

- Most Organisations Don't Have Project Controls – They Have Reporting
- CPI/SPI Doesn't Control Anything
- Forecast Credibility Is the Real Measure of Maturity
- Late Detection Is a Design Failure, Not a Delivery Failure
- Governance Speed Determines Stability
- Over-Intervention Is as Dangerous as Inaction
- Predictability Is Engineered
- Project Controls Is an Organisational Control Discipline, Not Administration

REGISTER NOW!





**QUESTIONS?
WE'RE HERE TO HELP**

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