



Earned Value and Project Controls

1-Day Workshop

Session 1: EV & Controls Overview

Introductions & house keeping

An overview of Earned Value Management & Controls (presentation)

- Key requirements
- Overview of EV concepts
- The basic concepts of EVM (AS/ISO 21508)
- Origins of EVM

Discussion and Questions

- What this course covers
- Structure of materials

Session 2: Getting the WBS & Schedule Right

Define the overall project Scope

- Project breakdown structures

The WBS (ISO 21511:2018 Work Breakdown Structures)

- WBS rules and definitions
- WBS numbering
- Work packages, planning packages, Control accounts
- 100% Rule (contingencies and unallocated budget)

The WBS Dictionary

The schedule

- Creating a 'good schedule'
- Dynamic schedules

Vertical and horizontal traceability in schedules

Integrating the WBS, cost and schedule

Session 3: EV Concepts

Developing a Time Phased Budget

- Time phasing work packages
- Assigning costs

Definition of key elements

- PV, AC, EV & BAC



Definition of key formula

- CV, CPI, SV, SPI, EAC & ETC

Measuring progress - Assigning objective measures of performance

- Payment Milestones
- Volume / count / measurement
- Percent Complete
- Apportioned Effort & Level of Effort

Setting the performance management baseline

- Developing the Performance Management Baseline (PMB)
- Maintaining the PBM

Authorising and performing the work

Variance analysis

- Understanding and interpreting EV data

Managing the work

Session 4: Governance and Controls

Obtaining performance data

Seeing the trends

- How information is displayed affects what you see

TCPI and Trends

- To Complete Performance Index
- The mathematics of losing

Managing the schedule

- Statusing and updating
- Data management

The art of surveillance

Reporting options

Governance requirements

Risk and uncertainty

- Variability in estimates and performance
- Risks and risk management

Useful EV Standards and Guides

- GAO Cost Estimating and Assessment Guide & Schedule Assessment Guide
- AS/ISO 21508 and ISO 21511
- Mosaic's resources



Course wrap-up and close

To discuss your Earned Value training requirements, contact:

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For more on our EVM Training see:

<https://mosaicprojects.com.au/Training-WS-EVM.php>