



# Earned Value and Project Controls

## 1/2-Day Workshop

### Session 1: EV & Controls Overview

Introductions & house keeping

**Key requirements**

**Overview of EV concepts**

**The basic concepts of EVM ( AS/ISO 21508 )**

- Decompose the Project Scope (develop the WBS)
- Assign Responsibility
- Schedule the Work
- Develop Time-Phased Budget
- Assign Objective Measures of Performance
- Set the Performance Measurement Baseline (PMB)
- Authorise and Perform the Work
- Accumulate & Report Performance Data
- Analyse Project Performance Data
- Management Action
- Maintain the Baseline

**EV Management**

**Analysing Performance Data**

**Uncertainty / Risk & Contingencies**

**Earned Schedule**

**Origins of EVM**

**Conclusions**

### Session 2: EV Concepts

**Overview of processes**

- Data reliability
- Establish a time phased baseline
- Assess actual performance (Earned Value)
- Record actual Costs
- Earned Value Management

**Definition of key elements**

- At 'Time Now': PV, AC, EV
- Total project costs BAC, EAC, & ETC



### **Definition of key formula**

- CV, CPI, SV, SPI, EAC & ETC
- Other EV formulae
- Variance -v- Index
- SPI limitations

### **Setting the performance management baseline**

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

### **Authorising and performing the work**

#### **Measuring progress - Assigning objective measures of performance**

- Volume / count / measurement
- Weighted Milestones
- Fixed formula
- Percent Complete
- Apportioned Effort
- Level of Effort

#### **Variance analysis**

- Understanding and interpreting EV data
- TCPI and Trends

#### **Management is Proactive**

#### **Reporting options**

#### **Summary**

#### **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**

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### **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>