



## Using Earned Value to Manage your Plan vs. Actual - One-Day Seminar

Program Number: PME22 / PDUs: 6

### 1.0 Introduction

- Seminar member introduction and overview of course material

### 2.0 Overview and History of Earned Value

- Defining Earned Value when used on projects
- History of Earned Value
- Rationale upon which Earned Value is based

### 3.0 Earned Value Methodology

- Comparison of Earned Value methodology to traditional project tracking
- Why Earned Value provides better information for monitoring and controlling projects

*Group exercise on using earned value methodology*

### 4.0 Preparing to use Earned Value

- What information must be captured in order to use Earned Value
- How the information must be structured to facilitate Earned Value Analysis and Reporting
- How to set up a Deliverable Breakdown Structure (DBS) and a Work Breakdown Structure (WBS) in a manner that facilitates the capture of information necessary for Earned Value analysis and reporting
- Multiple Cost Account Codes (Pro's and Con's)

### 5.0 Using Earned Value

- How to use the information captured by an Earned Value System
- What the information tells you about project performance
- How to use Earned Value information for decision-making

### Course Objectives:

The participants will gain a clear understanding of Earned Value principles and methods.

### Learn How to:

- Understand what Earned Value means
- Understand the history and rationale of Earned Value Reporting
- Use the DBS and WBS to capture and report Earned Value information
- Use Earned value methodology to predict project performance
- Avoid including information in the WBS which distorts Earned Value calculations
- Understand the use of multiple cost account codes for Earned Value reporting

*Group exercise on earned value analysis*

### 6.0 Predicting Project Performance using Earned Value

- Using the Cost Performance Index (CPI) to estimate Project Cost Performance
- Using the Schedule Performance (SPI) to estimate Project Schedule Performance
- Calculating the Estimate at Completion (EAC)
- Calculating the Estimate to Completion (ETC)

### 7.0 Avoiding Common Pitfalls

- Avoiding common project pitfall with dealing with different types of budgets

*Group exercise on avoiding common pitfalls*