

## CEV: Cost Control & Earned Value Management Seminar Outline

### ► **Overview:**

Cost Control & Earned Value Management seminar is a training seminar presented by a senior expert estimation & cost control engineer who has long experience in Estimation database organization & cost control systems development for large scale projects.

This seminar is to help in a company's simple resources organization, estimation department assembled resources planning, supplier prequalification, direct & indirect cost estimates, project integration management, procurement management, data collection strategy implementation, invoicing generation, insuring proper links between all company departments such as estimation, cost control, planning, quantity surveying, purchasing, ware houses, accounting and site management. Presentation of several cost control, reports including productivity & variance reports generation.



This seminar also includes training support hours in earned value management systems (EVMS) as presented in the PMBOK. The origins, implementation and intricacies of an earned value system are discussed, along with how the data can and should be used for maximum visibility. The seminar inspires an appreciation for the earned value concept, which recognizes that the standard comparison of budget versus actual cost is not an adequate indicator of progress, and emphasizes how performance measurement techniques can be a valuable management tool.

It will also cover several aspects such as the project control procedures which are necessary for cost management, Earned Value Management for lump sum projects, the change management methodology and tracking, the application of Primavera (P6) in EVM, and the failures & successes of the ERP systems.

► **Structure:** 18 hours to be carried out over 3 days, in addition to practice training hours.

### Who should attend?

Project/program managers, program management support staff, integrated product team leaders and team members, operations, technical, and business managers, control account managers.

### ► **Contents:**

#### 1- Earned Value Management as PMI in the PMBOK (3 hours)

- Estimation
- Budgeting
- Cost Control & Earned Value Management

**2- Project control procedures integrated implementation as a necessary requirement for cost management (1.5 hours)**

- Communication management procedures
- Planning procedures
- Cost management procedures
- Progress management procedures
- Change management procedures

**3- Earned Value Management for lump sum projects and variances calculations (1 hour)**

**4- Change Management Methodology & tracking with an example from Expedition (2 hours)**

**5- Earned Value Management and P6 Implementation (2 hours)**

- Application of Primavera (P6) in Earned Value Management
- Integration between P6 & cost estimation to generate the cost budget
- Actual data collection through P6 options

**6- Cost Control & ERP systems integration successes and failures (1 hour)**

**7- Integration Database Model Development (2.5 hours)**

- Introduction to access database as a construction data management tools
- Applications on major access database components
- Estimation database development, Simple resources dictionary, Assembled resources dictionary
- Project resources allocations dictionary, Estimation report generation
- All complimentary sections related to Estimation database
- Developing all complimentary sections related to estimation report
- Integration of Cost Estimation with planning
- Cost budget generation.
- RFD (Request for delivery) presentation & control
- Accounting for performance measurement
- Variance analysis and reporting
- Estimates at completion (EACS)
- Incorporating revisions to the baseline
- Subsystem integration
- Decision alternatives
- Performance report briefing

**8- Data Collection Database Implementation (2 hours)**

- Cost control database system development, Data collection strategy.
- Creating database links with accounting systems, Productivity & variance report generation.
- Practice on a project estimation data base development
- Practice on a project estimation report development
- Practice on a project cost control data base system development



- Practice on a project productivity & variance report development
- An introduction to earned value management systems
- Organization of the work – The work breakdown structure and the control account
- Planning and budgeting
- Performance measurement methods
- Work authorization
- Productivity report as an alternative for complete performance report in the lack of budget availability

#### **9- Additional Discussions (3 hours)**

- Indirect cost estimation
- Indirect cost budget
- Indirect cost control
- Report presentation
- Prequalification procedures for suppliers and subcontractors
- Project Control Risk Management