Introduction to Earned Value Management (EVM) Course

Earned Value Management (EVM) is a strategic project planning and control technique that enables professionals to assess both **cost** and **schedule** performance. This technique provides a comprehensive view of project progress relative to budget, enabling projections of future performance trends and allowing for early corrective actions in response to undesirable variances.

EVM is crucial for managing complex projects in any setting—whether in the **private sector**, **commercial**, or **government** sectors. This course is designed to equip participants with the knowledge and skills to master earned value management techniques, enabling them to efficiently manage project performance and address potential issues proactively.

Earned Value Management (EVM) System Certification and Training

The **EVM system training and certification** are vital for professionals aiming to excel in **project performance measurement**. Upon completing this course, participants will have an in-depth understanding of earned value management and how to measure project performance, enhancing their professional credibility and qualifications.

Targeted Groups

This course is ideal for:

- **Project Managers**
- **Project Controllers**
- **Cost Controllers**
- **Finance Professionals**
- **Team Leaders**
- **Project Technical Staff**
- **Project Sponsors/Owners**

Course Objectives

By the end of this **earned value management** course, participants will be able to:

- Apply an effective **earned value management system** to manage projects.
- Utilize **EVM tools** for superior project performance management.
- Collaborate with stakeholders to outline project objectives and create actionable plans.
- Make **agile project decisions** within scope, cost, and schedule constraints.
- Monitor **project workloads**, schedules, and financials while delegating tasks effectively.
- Anticipate project risks and use **EVM measurement techniques** to mitigate them early.

Targeted Competencies

By completing this course, participants will develop competencies in:

- **Earned Value Management Techniques**
- **Budget Analysis** and **Project Value Management**
- **Life Cycle Costing** within the project management framework
- Application of **EVM tools** to monitor and manage project performance

Course Content

Unit 1: Introduction to Earned Value Management (EVM)

- Management criteria versus **engineering criteria**
- Evolution of the **EVM concept**
- The **Cost/Schedule Control System Criteria (C/SCSC)**
- The **EVM System Criteria**
- Using **EVM tools** for **performance measurement**
- **EVM’s role in project management**

Unit 2: Scope of the Project

- Understanding the **project work scope**
- The **Work Breakdown Structure (WBS)** and its role in EVM
- **Make-or-buy decisions**
- Integrating **WBS** into **Earned Value Analysis**

Unit 3: Plan and Schedule the Project

- Defining **project objectives**
- Planning with precision
- **Scheduling techniques** in **EVM**
- The influence of **scheduling** on **earned value**

Unit 4: Estimate and Budget Project Resources to Form Control Account Plans (CAPs)

- Aligning **project scope** with **cost** and **schedule**
- **Earned Value CAPs alignment**
- **Cost estimation** and **budgeting**
- Management reserves in **EVM**

Unit 5: Establish the Earned Value Project Baseline

- Planning and measuring **earned value techniques**
- Development of **Control Account Plans (CAPs)**
- The **Performance Measurement Baseline (PMB)**
- **Baseline management** and handling **scope changes**

Unit 6: Monitoring Performance Against the Baseline

- Assessing **CAPs performance**
- **Cost** and **schedule variances** in **EVM**

- The role of **materials** and **subcontracts** in earned value

Unit 7: Final Cost and Schedule Forecasting

- Factors affecting **forecasting**
- Methodologies for **cost** and **schedule results**
- **Management reserve** vs. **contingency reserve**
- Estimating at **Completion (EAC)**
- The **Over-Target Baseline (OTB)** process
- Predicting project **time duration**

Unit 8: EVM Reporting

- Reporting from **subcontractors**
- Integrated **cost/schedule report analysis**
- **EVM reporting formats** and their interpretation

Upon completion of this course, participants will be fully equipped to implement **Earned Value Management (EVM)** in projects, manage performance proactively, and ensure the successful delivery of projects within scope, cost, and schedule constraints.