



EVENGINE STANDARD

EVENGINE STANDARD for Earned Value Performance Management (EVPM)

This Introductory level **TWO-day** hands-on workshop or **FOUR 4-hour** hands-on distance learning workshop designed for project managers professionals who want to understand the concepts, terminology and principles of **Earned Value Performance Management (EVPM)** for Portfolio / Program / Project Control and how to use **EVENGINE™ STANDARD** — Project Control software to deliver these capabilities.

EVENGINE STANDARD is a Microsoft® Excel Add-in utility that covers all computational requirements to deliver commercial **EVPM** performance reporting to internationally accepted standards and guidelines. Specifically:

- Project Management Institutes *PMBOK® Guide* - Fourth Addition, together with their Practice Standard for Earned Value Management, and
- ANSI/EIA-748-B — Standard on Earned Value Management System guidelines.

For more information on **EVENGINE STANDARD** information, visit the product's website www.evengine.net.

Who should attend?

Experienced Business, Portfolio and Project Managers, Cost Engineers, Quantity Surveyors, Investment Analysts, Financial Controllers & Accountants, Product & Production Managers, Strategic Business Planners, in fact any person, wanting to track, evaluate, trend and report project performance to internationally accepted standards and guidelines using **EVENGINE STANDARD** — Project Control software.

Learning Objectives:

- This principles and practices of **Earned Value Performance Management (EVPM)** applied to analyze the project's life cycle performance with respect to cost, work and material / quantity usage.
- For each aspect of the **EVPM** theory the associated **EVENGINE STANDARD** capability is explained, and demonstrated.
- **Earned Schedule (ES)** metrics, indicators and predictors based on EVPM data.
- In addition to the basic **EVPM** and **ES** concepts the **EVENGINE** extensions for Management of a Project's Cash Position and for Financial Appraisal and Investment Analysis are explained and demonstrated.
- **EVENGINE's** capabilities to support Program and / or Portfolios are explained and demonstrated.
- Using the full power of **Microsoft Office Excel** to enhance **EVENGINE's** Graphs and Reports, as well as sharing them with other stakeholders.

Course Content:

This hands-on workshop includes four hands-on labs to ensure that the participants understand Earned Value Performance Management concepts and the capabilities of **EVENGINE STANDARD** — Project Control software.

Define and review the project schedule requirements to support EVPM:

- A clear six step process for the development of comprehensive project schedule to support EVPM. Including Tasks that have cost — mandatory — work and materials / quantities — optional — assigned.

Hands-On Lab 1

This first hands-on lab allows participants to review and revise a MSProject Schedule to support Earned Value Performance Management (EVPM) with **EVENGINE STANDARD**.

Importing Planning and Actual Data

- Importing data from Microsoft Project and other planning systems such as Primavera P6/7.
- Entering data directly into the **EVENGINE** Spreadsheet interface.

Hands-On Lab 2

This hands-on lab allows participants to import MSProject scheduling data and establish an **EVENGINE** Workbook. They also update the original data based on updating the project schedule.

EVPM Basic Terminology

- Introducing of the basic EVPM terminology, including Budget At Completion (BAC), Estimate At Completion (EAC), Planned Value (PV), Earned Value (EV), and Actual Cost (AC).
 - Estimate At Completion (ETC).

Introduction to EVENGINE EVPM Graphs and Reports

- The common elements of all of the **EVENGINE** Reports and Graphs
- Explanation of the Graph types that are generated by **EVENGINE**
- Performance Graphs

Hands-On Lab 3

This third hands-on lab allows participants to generate a specific set of Performance Graphs.

EVPM for Variance, Performance & Trend Analysis

- Explain the use of EVPM for variance analysis, for performance analysis and the very powerful EVPM trend analysis values.

EVENGINE Graphs and Reports for Variance and Trend Analysis

Earned Schedule (ES) based on EVPM Data

- Explain the concepts and theory of Earned Schedule (ES), and then define a series of associated Indicators and Predictors.

EVENGINE Graphs and Reports of Earned Schedule Analysis

Hands-On Lab 4

The fourth hands-on lab allows participants to generate a specific set of variance and trend Graphs and Reports, as well as Earned Schedule (ES) output and to interpret the results.

Extending the Methodology

- Project, Program and Portfolio EVPM reporting
- For Investment Analysis
- For Financial Management

Hands-On Lab 5

In this lab participants are given the opportunity to discover how **EVENGINE** supports the previous extensions. For each scenario participants are given a general set of instructions and then encouraged to experiment.

Excel for Enhancing and Publishing EVENGINE Graphs and Reports

Workshop Content:

Each participant is given a copy of the **EVENGINE** User Manual, the PowerPoint slides used during the workshop. In addition participants are given hardcopy of the **EVENGINE** Data Structure Quick Reference card and **EVPM** Quick Reference card.