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بروجاكس للتدريب والتطوير
Projacs Training and Development

Earned Value Professional™ (EVP™) in Construction – Certified Program

تقييم أداء المشاريع الانشائية باستخدام إدارة القيمة
المكتسبة – معتمد عالمياً

06 – 10 December 2020

Dubai / United Arab Emirates

A Member of:



PROJACS ACADEMY



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Introduction

This course will introduce you to the fundamental concepts of earned value management (EVM). It will provide hands-on overview of the process of EVM, from project development to execution. You will learn the language associated with EVM. The course emphasizes the processes related to the Performance Management Baseline (PMB), the Integrated Baseline Review (IBR), and the American National Standards Institute (ANSI) for EVM systems. You will also learn about evaluating and computing basic EVM metrics and EVM metrics-based Estimates at Completion (EAC).

You will gain valuable EVM skills through hands-on exercises that take you from EVM project baseline formation at the beginning of the project life cycle through the challenges of ongoing assessments and reassessments of cost, schedule and performance changes.

The course provides an excellent review of the studying requirements for applying for the Earned Value Professional (EVP) Certification exam by the American Association of Cost Engineers (AACE). AACE International's newest certification program is designed to recognize the Earned Value Management Professional. The EVP certification program offers specialty credentials for the professional who wants to validate his/her skills and be designated as an EVP. Many professionals practice earned value management principles during the project life cycle. Until now, there has been no certification effectively measuring the Earned Value Professional's capabilities - except through real-life performance. AACE's EVP certification provides an exam and experience validation that lets industry and users identify those who are competent professionals within the EVM discipline.

Objectives

Earned Value Management System Objectives:

- Plan all work prior to beginning it
- Measure performance based on an objective set of criteria
- Analyze schedule status and projections using a time phased network
- Analyze the expenditure of funds in light of the work accomplished (not work scheduled)
- Isolate problems:

- Quantify technical problems within the context of cost and schedule parameters
- This is not aimed at replacing or changing the process for technical problem detection
- Forecast completion date and final cost
- Take corrective action
- Maintain disciplined control of the performance measurement baseline.

Who Should Attend?

The course is primarily intended for persons with responsibility for managing projects (project or program managers), or associated with the management of projects. The latter has included persons with responsibility for project oversight and governance (e.g. project directors and members of program management offices).

In What Industries

Government, Real Estate Development, Aerospace, Defence, Engineering and Construction, Manufacturing and Industrial, Oil and Gas\Petrochemical, Power and Water Utility Plants, Education and Training, Retail, Financial Services, Information Technology, Telecommunication, Pharmaceuticals, Environmental Management, Shipbuilding and Repair Yards.

Course Outline

Day One:

- Introduction
 - Understanding Projects Definitions and Characteristics
 - Project Success and Delivery Pains
- Earned Value Management (EVM) Process
 - EVM and cost, schedule and performance
 - EVM variables and metrics
 - Understanding the EVM reporting process.

Day Two:

- Project Scope Management
 - Work breakdown structure (WBS) and organizational breakdown structure (OBS)
 - Cost, schedule and performance criteria
 - Scope definition
 - Scope reporting
 - Responsibility assignment matrix
- Accounting Systems
 - Control accounts for projects
 - Accounting system and WBS/OBS
 - Costs

Day Three:

- Scheduling and Budgets
 - Scheduling techniques
 - Master schedule
 - Schedule Compression
 - Budget and Performance Measurement System (PMS)
 - Resource leveling
- Project Planning and Measuring Progress
 - Elements of the Performance Measurement Baseline (PMB)
 - Baseline realism
 - Project/program funding and performance budgeting
 - Resource loading schedule and networking
 - Planning packages and work packages

Day Four:

- Data Collection and Estimating Cost at Completion
 - Cost and schedule variables at the control account level
 - Budget, earned value, actual cost, schedule variance and cost variance
 - Variance analysis
 - Cost to complete a project using earned value data
 - Cost Performance Index (CPI)
 - Schedule Performance Index (SPI)
 - To Complete Performance Index (TCPI)

Day Five:

- Change Control and Baseline Maintenance
 - External and internal changes on PMB
 - Change control
 - Programmatic changes and performance variances
 - Over Target Baseline (OTB)
 - Budget at Complete (BAC)
- Performance Reporting
 - Communication Plan
 - EVM reports
 - Cost performance report
 - Cost/schedule status report
 - The baseline report

Training Method

- Pre-assessment
- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Group activities and tests
- Each participant receives a binder containing a copy of the presentation slides and handouts
- Post-assessment

Program Support

This program is supported by interactive discussions, role-play, case studies and highlight the techniques available to the participants.

Schedule

The course agenda will be as follows:

- | | |
|---------------------|------------------|
| • Technical Session | 08.30-10.00 am |
| • Coffee Break | 10.00-10.15 am |
| • Technical Session | 10.15-12.15 noon |
| • Coffee Break | 12.15-12.45 pm |
| • Technical Session | 12.45-02.30 pm |
| • Course Ends | 02.30 pm |

Course Fees*

- **2,950USD**
**VAT is Excluded If Applicable*

الاحتياجات والمنافع

هذا البرنامج سوف يعرض لكم المفاهيم الأساسية للإدارة ذات القيمة المكتسبة (EVM). وسوف يوفر التدريب العملي ونظرة عامة على عملية EVM، من تنمية المشروع إلى التنفيذ. وسوف تتعلم اللغة المقترنة EVM. ويؤكد البرنامج على العمليات المتعلقة بأداء إدارة خط الأساس (PMB)، ومراجعة خط الأساس المتكاملة (IBR)، والمعهد الوطني الأمريكي للمعايير (ANSI) لأنظمة EVM. وستتعلم أيضاً تقييم وحساب مقاييس EVM الأساسية و EVM التقديرات المستندة إلى المقاييس في إنجاز EAC.

سوف يتم خلال البرنامج اكتساب مهارات EVM قيمة من خلال التدريبات العملية التي تنقلك من مشروع EVM وتشكيل خط الأساس في بداية دورة حياة المشروع من خلال التحديات التي تواجه عمليات التقييم الجارية وإعادة تقييم تغيرات التكلفة، والجدول الزمني والأداء.

الدورة هي استعراضاً ممتازاً لمتطلبات الدراسة لتقديم طلب للحصول على امتحان شهادة (EVP) من قبل الجمعية الأمريكية لمهندسي التكاليف (AACE). تم تصميم برنامج AACE الدولية لتعرف على إدارة القيمة المكتسبة من الفئة الفنية.

الاهداف

- عمل خطة لكل عمل مخطط قبل أن تبدأ
- قياس الأداء على أساس مجموعة من المعايير الموضوعية
- تحليل وضع جدول زمني والتوقعات باستخدام الوقت على مراحل الشبكة
- تحليل إنفاق أموال في ضوء العمل الذي أنجز (وليس العمل المقرر)
- عزل المشكلات:
 - حصر المشاكل التقنية في سياق معايير التكاليف والجدول الزمني
 - لا تهدف الى استبدال أو تغيير عملية للكشف عن مشكلة فنية
- تاريخ الانتهاء والتكلفة النهائية
- اتخاذ الإجراءات التصحيحية
- الحفاظ على التحكم في النظام لأداء قياس خط الأساس

الحضور

البرنامج موجه للأشخاص ذوي المسؤولية عن إدارة المشاريع أو المرتبطة بإدارة المشاريع. وقد شمل هذا الأخير الأشخاص ذوي المسؤولية عن الإشراف على المشاريع والحكم (مثلا مديرين المشروعات وأعضاء مكاتب إدارة البرنامج).