Project Planning, Scheduling & Cost Control Professional

Preparing for PSP & PMI-SP® Certificates – Certified Program

تخطيط وجدولة وضبط المشاريع – معتمد عالميا

4-8 March 2018

Dubai / United Arab Emirates

Introduction

Since 1956, AACE International (the Association for the Advancement of Cost Engineering) has provided its members with the resources they need to enhance their performance and ensure continued growth and success.

The AACE International program's intent is to recognize specialists who meet a demanding set of planning and scheduling criteria. The PSP certification will distinguish you as a Planning and Scheduling Professional who has the knowledge and skills that impact the bottom line.

AACE's PSP certification provides an exam and experience validation that lets employers identify those who meet the program's competency standards.

Objectives

This five days training course will provide participants with a thorough background in the concepts of Planning and Scheduling Engineering and Construction projects. The course addresses how to identify, monitor, and balance information crucial for the successful management of projects. It will discuss the development of a baseline performance management plan (PMP) for the project that will allow the efficient compilation and the timely generation of quantitative performance comparisons. . The comparisons highlight significant performance departures ("actual vs. baseline") and allow for preventive and early remedial and corrective actions. The Practical sessions will provide hands-on experience. Workshops create and track sample project from planning phase till controlling phase (updating).

Who Should Attend?

This course is targeted for Project Managers, program Managers, Planners and engineers how are or will be involved in planning and managing projects where schedule, cost and performance of projects must meet rigid requirements in the areas of engineering, production, data processing, research and development, construction, corporate planning, finance and marketing.

Course Outline

Day One

- Course Introduction
  - ➢ Nature of the PSP Exam
  - ➢ Test procedure
  - ➢ Application Process and Requirements
  - ➢ The Nature and Type of Questions
- Introduction to Project Management Fundamentals
- Project definitions and characteristics
- Project life cycles and Project Management life cycle
- Organizational Breakdown Structure (OBS) & Cost Breakdown Structure (CBS)
- Work breakdown structure (WBS)& work packages and Activity Identification
- Time Management environment
- Network planning tools and techniques
- Estimating Durations
  - ➢ Program Evaluation and review Technique (PERT)
  - ➢ Critical path method (CPM)
  - ➢ Monte Carlo Simulation
- Working with Activities
  - ➢ Activity Types (milestone – Level of effort..)
- Workshops

Day Two

- Activity on Arrow (AOA) Networks
- Activity Logic
- Activity on Arrow (AOA) Schedule calculations
- Logic error and problems
- Schedule compression techniques
- Crashing and Fast Tracking
- Solved Examples
- Workshops on Arrow Diagram Method

Day Three

- Precedence Diagram Method (PDM) / Activity on Node (AON)
- Schedule Development Calculations
- Constraints Types
- Working with Calendars
- Activity Splitting
- Update the Schedule
- Professional Project Reports
- Solved Examples
- Workshops on Precedence Diagram Method

Day Four

- Resources Allocation
- Working with control Accounts
- Setting Up a Cost Account Structure
- Producing Resource Usage Profile
- Analyzing Resources and Costs
- Performance Measurement Reports
- Earned Value Management
- Project Risk Management
- Multiple Key parties in Real Project environment
- Workshops

Day Five

- Real 5 Hours Exam simulation

PMP and PSP are registered marks of the Project Management Institute, Inc.

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

مقدمة

منذ عام ١٩٥٦ والهيئة الدولية المتقدمة لمهندسي التكاليف AACEI تقدم الموارد والمهارات والخبرات اللازمة لأعضائها من كافة دول العالم ومؤخراً قامت بتصميم هذا البرنامج الاحترافي لزيادة كفاءة المهندسين في مجال التخطيط والجدولة نظرا لحاجة السوق الملحة لمخططين ومجدولين محترفين.

ويؤكد الحصول على هذه الشهادة فاعلية الاداء المهني في مجال التخطيط والرقابة والمتابعة للمشروعات زمنيا وماليا بكافة أنواعها ومجالاتها.

الاهداف

يعد وضع خطة عمل للمشروع من أهم أسس النجاح لأي مشروع ولذلك تعد دراسة المفاهيم الخاصة بالتخطيط للمشروعات والتمكن من الأدوات المستخدمة في التخطيط والجدولة متطلبا أساسيا لجميع العاملين في تخطيط وجدولة وضبط المشاريع.

من خلال ورش العمل بالبرنامج سوف يتمكن المشاركون من التعرف على وتطبيق نظم فعالة في التخطيط والرقابة الزمنية والمالية للمشاريع وأهمية الجدولة في الاستخدام الكفء للموارد.

الحضور

يستهدف هذا البرنامج مدراء البرامج، مدراء المشاريع، المهندسين والمخططين، كافة التخصصات المهتمة بتخطيط وجدولة ومتابعة المشروعات.