

## Planning and Scheduling Professional (PSP)

### Course general description:

The PSP® certification is designed for managers and consultants who want an internationally recognized advanced-level credential in planning & scheduling field. PSP® (Planning and Scheduling Professional) is a certification granted by the Association for Advancement of Cost Engineering (AACE)® to individuals who possess fundamental knowledge and expertise in planning and scheduling. This course is suitable for those wishing to complete their training in a short space of time, in preparation for the exam shortly after and 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 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.

### Audience:

This course is designed for:

1. Chief executive officers
2. Finance managers
3. Human resources managers

### Course objectives:

At the end of the workshop participants will be able to understand and practice the following:

- Project Management introduction
- Planning and Scheduling Professional
- WBS and Activity Identification
- Estimating Activity Durations
- Activity network Development
- Network Schedule Calculation
- Earned Value Management
- Project Report

### Course duration:

5 days

### Course location:

Dubai

### Course contents:

#### **Day-1**

- Summary of PSP Certification Process
- PSP Certification EXAM Structure
- Study Materials
- General definitions & Overview on Project
- **1.0 Planning**
  - Overview on Planning Concept as per PSP Material

- **1.A Planning Development**
  - **1.1 Input Data**
    - 1.1.1 Contract Requirements
    - 1.1.2 Identification of Stakeholders
    - 1.1.3 Constructability Methods
  - **1.2 Consideration & Constraints**
    - 1.2.1 Identification of Resources
    - 1.2.2 Value Engineering
    - 1.2.3 Stakeholder Considerations
    - 1.2.4 Project Variables

#### Day-2

- **1.B Planning Product**
  - **1.3 Output & Deliverables**
    - 1.3.1 Define Scope of Work
    - 1.3.2 Define Project Goals
    - 1.3.3 Define Project Plan
    - 1.3.4 Phase Definition
    - 1.3.5 Establish Work Breakdown Structure (WBS)
    - 1.3.6 Establish Organization Breakdown Structure (OBS)
    - 1.3.7 Establish Cost Breakdown Structure
    - 1.3.8 Sequencing & Phase Relationship
    - 1.3.9 Review by Stakeholders
    - 1.3.10 Cost Estimate Development
    - 1.3.11 Baseline Plan
    - 1.3.12 Periodic Forecasts
    - 1.3.13 Risk and recovery Plan

#### Day-3

- **2.0 Scheduling**
  - Overview on Planning Concept as per PSP Material
- **2.A Schedule Development**
  - **2.1 Input Data**
    - 2.1.1 Define Schedule Scope
    - 2.1.2 Breakdown Structure Relationships
    - 2.1.3 Schedule Specification
    - 2.1.4 Feedback from stakeholders
    - 2.1.5 Cost Estimate Model
  - **2.2 Creating Schedule**
    - 2.2.1 Types of schedule
    - 2.2.2 Activities
    - 2.2.3 Durations
    - 2.2.4 Relationship
    - 2.2.5 Constraints and Calendars

- 2.2.6 Cost and Resources Loading
- 2.2.7 Milestones
- 2.2.8 Schedule quality analysis&Compliance Review
- 2.2.9 Schedule Basis Development

#### Day-4

- **2.B Schedule Maintenance & Controlling**
  - **2.3 Maintain Schedule**
    - 2.3.1 Baseline Schedule
    - 2.3.2 Tracking Schedule Progress
    - 2.3.3 Cost and Resource Management
    - 2.3.4 Schedule Change Management
    - 2.3.5 Acceleration
    - 2.3.6 Schedule Maintenance Feedback
  - **2.4 Output and Deliverables**
    - 2.4.1 Control Level Schedules
    - 2.4.2 Variance and trained
    - 2.4.3 Schedule Analysis
    - 2.4.4 Schedule Forecasts
    - 2.4.5 Constructability Review
    - 2.4.6 Progress Reports & Reviews
    - 2.4.7 Recovery Schedules
    - 2.4.8 Management Summary

#### Day-5

- **Exam Samples**
  - PSP Exam Simulation I
  - PSP Exam Simulation II
  - PSP Exam Simulation III
  - PSP Exam Simulation IV
  - Report samples

#### **Methodology:**

- 50% lectures & concepts
- 10% Videos
- 10% Case studies
- 10% Exercises
- 10% Discussions
- 10% Software (if applicable or examples)

**Course code: (TEME021)**