

Certificate in Advanced Project Management

(5 Days Training Course)



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Why Attend

The overall aim of this course is to provide participants with the knowledge and skills needed to perform in-depth analysis for a project during the planning and the implementation phases. Participants in this interactive course will learn all the critical tools and techniques required to make decisions to optimize the successful execution of a project in a dynamic environment.

Course Methodology

This course relies on the use of individual and group exercises aimed at helping participants learn all key project management activities. The course also features the use of a number of case studies and presentations by participants, followed by discussions. In addition, this course incorporates pre and post testing.

Course Objectives

By the end of the course, participants will be able to:

Define project management frameworks, processes and tools in compliance with the Project Management Institute (PMI) standards

Apply different techniques that will assist in the project selection process

Construct project diagrams, schedules and plans and use different techniques to perform an in-depth analysis on project schedules and plans

Identify different methods for cost estimating and project budgeting

Manage time and cost deviations through applying earned value analysis

Employ risk management plans and apply risk response strategies to ensure successful implementation of the project

Develop program management plans in compliance with Project Management Institute standards

Target Audience

Personnel who are seeking in-depth knowledge of creating and managing project plans. The course is also designed to provide comprehensive time, cost and risk analysis as well as several techniques used to regain control over projects.

Target Competencies

Project management

Performing project scheduling

Developing project plans

Managing project budget

Developing project controls

Risk management

Overview of project management

- Defining project management terminologies
- Project management benefits
- Triple constraints
- Project life cycle
- Project stakeholders
- Effect of organizational structure

Project risk management

- Project risk identification
- Qualitative risk analysis
- Quantitative risk analysis
- Project risk response planning
- Contingency and management reserves

Project selection

- Project selection models
- Benefit cost ratio
- Average Rate of Return (ARR)
- Payback period
- Net Present Value (NPV)
- Internal Rate of Return (IRR)
- Decision trees

Program management

- Program life cycle
- Developing program work breakdown structure
- Developing program schedule
- Developing program financial plan

Project planning and scheduling

- Project charter
- Project scope statement
- Building work breakdown structure
- Duration estimation
- Program Evaluation and Review Technique (PERT)
- Relationships between activities
- Network diagram
- Critical Path Method (CPM)
- Manipulating logic
- Resource allocation
- Resource leveling
- Duration acceleration

Project budgeting

- Cost estimating techniques
- Cost baseline
- Project budget
- Slack management
- Compression by crashing

Project control

- Variance analysis
- Dashboards and scorecards
- Key performance indicators
- Earned value
- Managing deviations