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# Technical Project Management

## INTRODUCTION

- It is widely recognized that the field of Project Management is vital to the success of businesses especially during times of uncertainty and operational disruption. As projects become more complex and more organisations move to management by projects, there is an increasing demand for competent project managers. Surprisingly, many projects go wrong, and the question is: why do they go wrong? Most of the answer has little to do with project size or degree of complexity but a lot to do with competent project planning and control. The cause of project failures can often be traced back to poor project definition, planning, or control.
- Among the three top desired project management skills, technical knowledge rates as a key component that employers require. While leadership is paramount, the success of a project requires making 'good' informed decisions based on solid data. Yet, few managers have had formal training in decision-making and project control. This Technical Project Management training course provides you with the training you need to estimate, plan and control your project and show you how to translate data into action that ultimately saves the project.

This training course presents insights into:

- Knowledge of Project Economic Evaluation
- Understanding and handling Project Risk
- Develop estimates and budgets
- Understand Project Planning
- Correct application of Project Control

## OBJECTIVES

Attendees of this training course will fully understand:

- Project Economic Evaluation and Cash Flow
- Project Estimating and budgeting
- Project planning and scheduling using networks
- Elements of Successful Control Systems and Cost Management
- Techniques for Project Control and Earned Value Management
- Project Reporting

## TRAINING METHODOLOGY

- This Technical Project Management training methodology incorporates both theory and skill training components. This training course uses both well-tried and non-traditional techniques, utilises hands-on several mini-case studies and group discussions and provides thorough coverage of concepts, techniques and relevant case studies in project management.

## ORGANISATIONAL IMPACT

The organisation will benefit by:

- Development of a skilled workforce which is capable of planning and managing projects
- Systematic and efficient management of Projects
- The increasing success rate of projects meeting quality, time, and budgetary goals
- More efficient utilization of company resources
- Reduction of wasted time and money

## PERSONAL IMPACT

Attendees will gain by participation in this training course through:

- Ability to plan a project balancing competing objectives
- Proactive identification of risk sources and minimisation of their impact
- Understanding the relationship between cost & time
- Knowledge of mathematical techniques used in resource planning and control
- Evaluating project progress and modifying project plans accordingly

## WHO SHOULD ATTEND?

- This Technical Project Management training course is intended for Project Management Professionals and individuals who want to hone their project management skills. So whatever background you have (i.e., Oil & Gas, Engineering, Information Technology or Business), this training course will cover both fundamental principles and modern tools of project management.

## Course Outline

### Overview of Project Management

- Projects in Contemporary Organisations
- Project Delivery Systems
- The Nature and Context of Project Management
- Leadership, Power and Influence
- The Project Control Cycle

## Project Estimating

- Developing a Work Breakdown Structure
- Risk Terminology
- Objective and Subjective Risk Assessment
- Basic Techniques for Handling risk
- Cost Fundamentals
- Cost Estimation: Approximate and Detailed Estimates
- Direct and Indirect Costs

## Project Planning

- Fundamentals of Project Planning
- Network Analysis Techniques
- Critical Path Scheduling
- Resource Allocation
- Resource Leveling
- Compressing Schedules
- Monitoring and Control using Networks

## Project Control

- What is a Control System?
- The Concept of Variance
- Time-cost Trade-Off
- Cash Flow Analysis
- Earned Value Management

## Project Reporting & Advanced Topics

- Economic Evaluation of Projects
- Interest & Bid Unbalancing
- Integration of Estimating, Planning & Control
- Lean Project Management: Concept and Applications

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