BLACKBIRD FOR TRAINING

Advanced Project Control Engineer

Kigali (Rwanda)

24 - 28 February 2025

Advanced Project Control Engineer

Code: PM28 From: 24 - 28 February 2025 City: Kigali (Rwanda) Fees: 3300 Pound

Introduction

Engineering projects are, without doubt, the most challenging and complex type of project there is. This is because engineering projects are continuously pushing the limits of modern technology and human skills in order to deliver results that are better and more efficient than ever before. Engineering projects are also carried out in environments that vary widely from one project to the next. The consequences of a failed engineering project are often catastrophic, ranging from severe health and safety impacts, to environmental damage and extreme financial penalties.

It is therefore of vital importance that engineering projects are managed as effectively and efficiently as possible. Without this, most engineering projects will, at best, suffer from delays and cost over-runs but, at worst, may result in human fatalities, environmental damage, and severe financial loss. This Project Control Engineer training course is designed to help develop the skills of both existing and aspiring Project Managers, Engineers, and Team Leaders in the fundamental aspects of engineering project management, providing them with the ability to successfully manage and deliver engineering projects of any size and complexity.

Course Objectives

- Understanding the fundamentals of engineering project Control.
- Key project management skills needed to maximise project performance.
- Planning, organising, implementing, and controlling engineering projects.
- Managing engineering project risks.
- Engineering project scheduling and progress measurement techniques .

Course Outlines

Day 1: Engineering Project Fundamentals

- Key Project Terms & Definitions.
- The Engineering Project Lifecycle.
- Engineering Project Complexity Factors.
- Understanding Project Environment & Context.
- Defining Engineering Project Scope.
- Key Financial Concepts.

Day 2: Engineering Project Planning & Organising

- Identifying Objectives & Prioritising Goals.
- Engineering Project Planning Methods.
- Developing Work & Cost Breakdown Structures.

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- Project Management Roles & Responsibilities.
- Project Estimating Techniques.
- Project Scheduling Methods.

Day 3: Implementing & Controlling Engineering Projects

- Project Resource Management.
- Developing Project Control Systems.
- Applying Formal Management of Change.
- Engineering Document Reviews & Control.
- The Project Risk Management Process.

Day 4: Performance & Progress Measurement

- Measuring Projects for Success.
- Project Management Success Factors.
- Project Monitoring & Reporting Methods.
- Key Performance Indicators.
- Performance Measurement Earned Value Management.
- The Time-Cost Trade-off.

Day 5: Engineering Project Leadership

- Project Interface Management.
- Team Building & The Team Development Cycle.
- Communication, Delegation, and Motivation Skills.
- Running Effective Project Meetings.
- Managing Stakeholder Expectations.
- Successfully Closing Engineering Projects.

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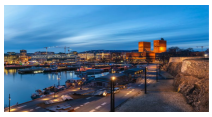
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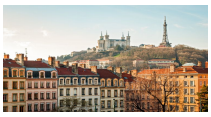
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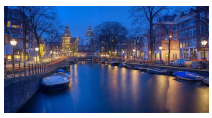
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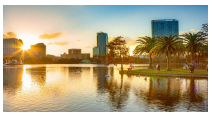
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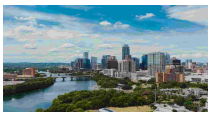
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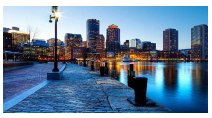
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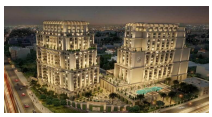
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