BLACKBIRD FOR TRAINING

Advanced Project Control Engineer

22 – 26 February 2027
Kigali (Rwanda)



Advanced Project Control Engineer

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Introduction

Engineering projects are among the most complex and challenging endeavors. They push the limits of modern technology, human skills, and innovation to deliver results that are more efficient and advanced than ever before. Whether in construction, manufacturing, or technology, engineering projects often occur in highly variable environments. The consequences of failed engineering projects can be catastrophic, including severe health and safety impacts, environmental damage, and significant financial penalties.

Effective project management and control are crucial to the success of any engineering project. Without these skills, projects may face delays, cost overruns, or, in the worst-case scenario, lead to fatalities, environmental harm, and substantial financial losses. This Project Control Engineer training course is designed for both existing and aspiring Project Managers, Engineers, and Team Leaders. It focuses on the fundamentals of engineering project control, equipping participants with the necessary skills to successfully manage and deliver engineering projects of any size and complexity.

Course Objectives

By the end of this course, participants will:

- Understand the fundamentals of engineering project control.
- Gain the key project management skills needed to maximize project performance.
- Learn how to plan, organize, implement, and control engineering projects efficiently.
- Understand the process of managing engineering project risks effectively.
- Master techniques for engineering project scheduling and progress measurement, including earned value management.



Course Outlines

Day 1: Engineering Project Fundamentals

- Key project terms and definitions.
- The engineering project lifecycle.
- Factors contributing to engineering project complexity.
- Understanding the project environment and context.
- Defining the scope of an engineering project.
- Key financial concepts in engineering project management.

Day 2: Engineering Project Planning & Organizing

- Identifying objectives and prioritizing goals.
- Engineering project planning methods and strategies.
- Developing work and cost breakdown structures WBS and CBS.
- Understanding project management roles and responsibilities.
- Project estimating techniques and accuracy.
- Project scheduling methods and timelines.

Day 3: Implementing & Controlling Engineering Projects

- Project resource management: Ensuring efficient allocation of resources.
- Developing effective project control systems.
- Applying formal management of change in projects.
- Engineering document reviews and control.
- The engineering risk management process.

Day 4: Performance & Progress Measurement

- Measuring project success: Metrics that matter.
- Key project management success factors.
- Monitoring and reporting methods in engineering projects.
- Key performance indicators KPIs in engineering projects.
- Performance measurement techniques including Earned Value Management.
- Understanding the time-cost trade-off in engineering projects.



Day 5: Engineering Project Leadership

- Managing project interfaces effectively.
- Building and leading project teams: Team development cycle.
- Communication, delegation, and motivation skills.
- Running effective project meetings for better results.
- Managing stakeholder expectations and communications.
- Closing engineering projects successfully and ensuring completion.

Why Attend This Course: Wins & Losses!

- Master essential skills for successful engineering project control, including managing resources, risks, and performance.
- Gain a solid understanding of engineering project lifecycle, from planning to closure.
- Learn how to implement project control systems and manage project schedules effectively.
- Get hands-on experience with earned value management to measure project performance accurately.
- This course will help you develop critical leadership skills necessary to drive project success and manage teams effectively.

Conclusion

This course provides an essential toolkit for engineers, project managers, and team leaders involved in engineering projects. Through comprehensive training on engineering project control, participants will be equipped with the skills needed to manage complex projects, mitigate risks, and measure performance accurately.

Whether you are working on process control, quality control, or general engineering project management, this training will ensure that you have the necessary knowledge to drive projects to success.

