



Project Management for Brownfield Projects with Engineering and Construction Contractors

Potential PDH:

Description:

This course is designed for project managers, project engineers, operations staff, and all disciplines that work on integrated project teams for Brownfield onshore and offshore project that are installed in existing facilities. This course addresses the unique aspects of a Brownfield project and why it must be managed differently than a greenfield project. Case studies include modification to offshore structures as well as onshore projects.

YOU WILL LEARN HOW TO

- Plan and deliver a Brownfield project
- Effectively management Brownfield project challenges
- Apply the unique stage elements of a Brownfield project
- Utilize methods for conducting facility due diligence and why this is critical to project success
- Establish a project oversight board to ensure alignment among all stakeholders
- Skills to develop, gain stakeholder alignment, and control a Brownfield scope of work
- Develop a contracting strategy for a Brownfield project
- Address the unique constructability issues associated with a Brownfield project
- Ensure that Operations staff align with project objectives

ABOUT THE COURSE

This course is designed to teach the skills necessary to effectively plan and manage Brownfield projects or those in existing facilities. This includes due diligence of existing infrastructure, framing the project, concept selection techniques, managing stakeholders, and integration with Operations led projects. The course focuses on the unique challenges of Brownfield projects and how project leaders can effectively work in this Operations centric project environment. Exercises, the case study and discussions make the sessions challenging and insightful.

Outline:

These topics are all discussed in the context of a Brownfield project

- Brownfield Stage Gate System
- Brownfield Project Challenges
- Staffing the Brownfield Project Team
- Communications Management



- Stakeholder Management
- Concept Selection and Brownfield Projects
- Key Value Improving Practices for Brownfield Projects
- The Importance of Due Diligence on the Existing Facility
- Quality Management in Engineering, Procurement, and Construction
- Brownfield Projects and Risk
- Change Management
- Contract Strategy and Contractor Selection
- Procurement, Logistics and Material Management
- Construction Management and HSE
- Managing Cost/Schedule Stakeholder Expectations for a Brownfield Project
- Performance Reporting
- Commissioning and Startup
- Roles and Qualities of Successful Project Managers

Subject Matter Expert (SME):

Pieter 'Pete' Luan is a seasoned expert with over 30 years of experience in management consulting, project management, and project consulting within the petrochemical and energy industries. He has served as a project consultant on major initiatives, including three petrochemical megaprojects totaling \$15 billion and a \$6 billion refinery expansion, where he led peer reviews, gate-clearing processes, and constructability and execution planning sessions. Pete has collaborated with senior management to enhance the predictability of brownfield projects, focusing on front-end planning, risk management, contracting strategies, and governance to ensure project success.

As a dedicated educator and leader, Pete has developed and delivered courses on project controls, risk management, and project delivery systems. He has also facilitated workshops on enterprise capital risks, executive alignment, and project governance. Holding both Bachelor's and Master's degrees in Mechanical Engineering from **Rice University**, Pete combines technical expertise with practical experience to help professionals optimize project outcomes, improve performance metrics, and mitigate risks effectively.