MERCURY

Project Interface Management for Oil and Gas Projects

14 – 18 June 2027
Rome (Italy)



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Project Interface Management for Oil and Gas Projects

Ref: 15386_298414 **Date:** 14 – 18 June 2027 **Location:** Rome (Italy) **Fees:** 7200 Euro

Introduction:

This project interface management in oil and gas course delves into the critical discipline of project interface management in the oil and gas industry, providing participants with an understanding of the fundamental concepts, tools, and processes necessary for successful implementation, monitoring, and control of project interfaces.

This project interface management in oil and gas training equips engineers and technical managers with best-practice techniques to mitigate the risks of delays and rework caused by poorly managed interfaces. It integrates human-engineered physical systems and interactions between software and human operators.

Course Objectives:

By the end of this project interface management in oil and gas course, participants will:

- Understand interface management's importance in project management and its influence on the integrity of oil and gas projects.
- Skillfully identify, define, and control system interfaces, applying knowledge with clarity to project interface management plans.
- Strategically plan and execute interface management, employing processes and tools to oversee interface engineering activities effectively.
- Discuss the complexities and challenges of interface management in oil and gas projects, utilizing examples and the Integration Readiness Level scale for analysis.
- Recognize the implications of interface changes on system elements and manage these changes adeptly to maintain project coherence.

Targeted Competencies:

Participants in this project interface management in oil and gas training will develop:

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- In-depth knowledge of project interface management principles in the oil and gas industry.
- Ability to identify critical interface points between project components, ensuring robust project interface management.
- Proficiency in fostering effective communication and coordination across multi-disciplinary project teams.
- Expertise in resolving interdependencies and conflicts, a cornerstone of interfaces in project management.
- Risk management acumen specific to project interfaces, allowing for early identification and mitigation of potential setbacks.
- Proficient in documenting, tracking, and maintaining interface agreements and changes.
- Competence in using software tools for interface management.
- Ability to integrate interface management into project planning and execution.

Targeted Groups:

This project interface management in oil and gas course is designed for:

- Interface Engineers and Managers seek to understand how to enhance collaboration within oil and gas projects.
- Design Engineers aim to integrate interface considerations into their work effectively.
- Engineering Managers and Integration Engineers want to oversee the seamless integration of various project components.
- Project Managers, Project Coordinators, and Project Engineers focused on successfully delivering oil and gas projects.
- Software Systems Engineers are interested in applying interface management to software integration within the project.

Course Outline:

Unit 1: Introduction to Project Interface Management:

- Definition and scope of project interface management in the oil and gas industry.
- Exploring the risk reduction benefits of a structured interface management approach.
- Assessing the need for project interface management within various project scopes and its relevance to project success.

Unit 2: The Value of Interface Management in Oil and Gas Projects:

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- Investigating how interface management fosters stakeholder collaboration and benefits all parties, including contractors and owners.
- Mitigating risk in oil and gas projects using Interface Management Key Performance Indicators KPIs, such as:
    - Change of Scope.
    - Disconnection with Contractor.
    - Schedule Discrepancies.

Unit 3: Planning & Execution of Interface Management:

- Understanding the role of interface management across the oil and gas project lifecycle stages:
    - Feasibility.
    - Concept.
    - Detailed Scope.
    - Design.
    - Construction.
    - Commissioning and Start-up.
    - Operations.
- Steps for successful implementation during PreFEED/FEED.
- Detailed Design.
- Construction and Commissioning stages.
- Establishing efficient project closeout and handover protocols informed by a robust interface management strategy.

Unit 4: Crafting and Implementing an Effective Interface Management Plan:

- Development of a comprehensive Master Interface Plan tailored to oil and gas project requirements.
- Create and manage the interface register for seamless tracking and accountability.
- Selection and utilization of appropriate tools supporting the project interface management plan.
- Strengthening team capabilities through targeted communication and specialized training.

Unit 5: Leveraging Interface Management Software for Oil and Gas Projects:

- Formalizing scope delineation with software tools.
- Mitigate cost and schedule risks.
- Improve accountability.
- Ensuring policy compliance and accountability across project teams.
- Why Is Managing Interfaces with Spreadsheets Risky?
- Why is managing interfaces with the RFI process risky?
- Reduce errors and wasted time reworking.
- Why Does Managing Interfaces with Document Management Systems Not Work?

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Conclusion:

Throughout this project interface management in oil and gas course, participants will gain essential skills and knowledge that position them as effective project interface managers within the volatile and highly technical oil and gas project environment.