



Project Interface Management for Oil and Gas Projects

04 - 20 May 2025
Online



Project Interface Management for Oil and Gas Projects

Ref.: 15386_314273 **Date:** 04 - 20 May 2025 **Location:** Online **Fees:** 2500 **Euro**

Introduction:

This project interface management for oil and gas projects course covers the fundamentals of interface management, including tools, processes and systems that will guide you in implementing, monitoring and controlling interfaces in Oil and Gas projects.

This project interface management for oil and gas projects course is aimed at engineers or technical managers who want to apply best practice techniques to avoid delays, rework and other detrimental consequences of mis-designing interfaces. While focused on human-engineered physical systems, it is relevant to interfaces between software and humans.

Course objectives:

At the end of this course, the participants will be able to:

- Explain why there is a need for interface definition and management and its impact on the integrity of the system solution.
- Identify, define, and control the system and system element interfaces and apply and evaluate that knowledge using clear understanding.
- Plan interface management, define processes and appropriate tools, and use these to monitor and control interface engineering activities.
- Describe possible sources of complexity of the interface definition and management for a project, provide examples, and analyze the potential impact on the project using the Integration Readiness Level scale.
- Identify consequences of changes to interfaces on the system elements, system of interest and containing system, and understand how to manage those changes.

Targeted Competencies:

- Understand Project Interface Management principles.
- Ability to identify and manage interface points between project components.
- Proficiency in communication and coordination across project teams.
- Expertise in resolving conflicts and managing dependencies.
- Know risk management related to project interfaces.
- Skill in documenting and tracking interface agreements and changes.
- Competence in using software tools for interface management.
- Ability to integrate interface management into project planning and execution.

Targeted Groups:

- Interface engineers.
- Design engineer.
- Engineering manager.
- Integration engineer.
- Project manager.
- Project coordinators.
- Project engineer.
- Software systems engineer.

Course Outline:

Unit 1: Introduction: What is Interface Management:

- What is Interface?
- How does Interface Management reduce risk?
- Does your Project Need Interface Management?

Unit 2: Interface Management Benefits:

- Interface Management and Stakeholder Benefits.
- Contractors.
- Owners.
- Project Management Teams.
- Mitigating Risk with Interface Management Key Performance Indicators KPIs:
 - Change of Scope.
 - Disconnection with Contractor.
 - Schedule Discrepancies.

Unit 3: Planning & Implementation:

- Interface Management and the Project Life Cycle:
 - Feasibility.
 - Concept.
 - Detailed Scope.
 - Design.
 - Construction.
 - Commissioning and Start-up.
 - Operations.
- PreFEED/FEED.
- Detailed Design.
- Construction and Commissioning.
- Project Closeout and Handover.



Unit 4: Steps to Planning & Implementing IM:

- Develop the Master Interface Plan.
- Develop the interface register.
- Select a tool that supports your plan.
- Ensure communication and training.

Unit 5: Interface Management Software:

- Formalize scope delineation.
- Mitigate cost and schedule risks.
- Improve accountability.
- Ensure policy compliance.
- 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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