Introduction

This specialized oil and gas project management program provides insights into modern approaches for delivering, planning, and overseeing projects in the oil and gas sector. It explores strategies for effective negotiation, state-of-the-art project delivery techniques, and technologies that optimize project management performance, illustrating practical examples of what is effective and what isn’t.

This extensive course is designed to equip professionals with the advanced skills required to successfully manage oil and gas projects. The program integrates key project management concepts, offering a comprehensive understanding for individuals looking to enhance their expertise in managing oil and gas operations.

Certification in Oil and Gas Project Management

Upon completion of this training, participants will have developed an in-depth understanding of the complexities involved in managing projects in the oil and gas sector. This will pave the way for acquiring certification in oil and gas project management, which enhances professional credibility and signals expertise to prospective employers. The course emphasizes both theoretical and practical skills that are crucial for oil and gas project managers.

Target Audience

- Project management professionals
- Commercial management experts
- Contracts management specialists
- Financial management professionals

This course is also ideal for business services professionals responsible for project planning, decision-making, and managing schedules and costs in client-facing or contracting roles within the oil and gas industry.

Learning Outcomes

By the end of the course, participants will be able to:

- Analyze advanced issues in project delivery systems.
- Understand the specifics of design in oil and gas projects.
- Implement management techniques to handle projects with compressed timelines.
- Identify key success factors and characteristics for oil and gas projects.
- Apply advanced lead/lag scheduling methods in project construction.
- Address challenges in schedule updates, cost control, and cash flow management.
- Develop negotiation skills to resolve conflicts efficiently and cost-effectively.
- Understand critical warranty and contractual considerations in project

management.
- Recognize challenges related to integrating innovative management methods and technologies.
- Utilize cutting-edge computer tools for enhanced project management.

Key Competencies

- Managing stakeholders and communication in the oil and gas sector.
- Continuously monitoring and controlling project performance and delivery.
- Estimating and allocating resources and costs effectively.
- Accelerating project timelines under challenging circumstances.
- Developing project close-out plans aligned with success criteria.

Course Outline

Unit 1: Project Delivery Systems and Financial Management

- Key project management terminology and concepts
- Analyzing the advantages and drawbacks of different delivery systems
- Identifying success factors for project delivery
- Understanding Build-Operate-Transfer (BOT) models and their concerns
- Economic evaluations and project finance principles

Unit 2: Project Finance, Cash Flow, and Advanced Estimating Techniques

- Phases of a project and the issues associated with each
- Financial evaluation methods for oil and gas projects
- Managing contractor and owner cash flow
- Developing project scope and work breakdown structures
- Tools for project estimation using advanced computer technologies

Unit 3: Advanced Scheduling and Estimation Techniques

- Conceptual and parametric estimation methods
- Lead/lag scheduling techniques
- Resource allocation strategies for construction projects
- Managing time-cost trade-offs in project planning
- Linear scheduling methods for more effective project management
- Utilizing software tools for advanced project scheduling

Unit 4: Project Control and Negotiation Strategies in Construction Management

- Project control systems and methods for updating project schedules
- Implementing earned value management techniques
- Building effective project teams and promoting teamwork
- Negotiation strategies: Understanding and applying tactics for successful outcomes
- Managing conflicts and addressing challenges in negotiations (BATNA considerations)

Unit 5: Advanced Project Management Topics

- Introduction to building information modeling (BIM)
- Best practices in material management for construction projects
- Implementing lean project management principles for greater efficiency