



**Pipeline Engineering, Construction, Economics &
Project Management
PFE05**



**Oil & Gas
Consultancy Services & Technical Training Providers**

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Pipeline Engineering, Construction, Economics & Project Management (PFE05)

Course Description:

This is a very versatile course in that it provides the understanding of basic pipeline engineering design factors that affect the pipeline project economics.

It therefore inculcates the engineering aspect and the economic aspects of most pipeline projects.

It has been designed with engineers, engineering cost accountants, project managers & engineers, planning engineers, financial analysts and accountants in mind.

This five day program will expand knowledge of participants in the areas listed under the course content below and broaden their knowledge in the ways and manner with which to budget for pipeline projects and how to ensure pipeline projects' completion within budget.

Example calculations and class exercises that enhance hands-on proficiency will also assist the participants.

Given the likely mix of participants' background, it promises to bring varying experiences into a single environment for teaching and learning.

What You Will Learn?

Part of what participants will learn includes the following:

- i. Understanding of natural gas and crude oil pipeline engineering basis.
- ii. Understanding of the importance and relevance of various aspect of pipeline engineering design in the project economics and completion.
- iii. Cost breakdown structure and cost estimation of pipelines.
- iv. Economic profitability yardsticks and those most suitable for pipeline projects.
- v. Pipeline Capacity and pipeline economics, the relationships.

Course Contents:

1. Pipeline Projects Definition & Work Breakdown Structure

- Project Overview
- Onshore vs. Offshore Pipelines
- Stages in Pipeline Projects
- Contractor Selection

2. Pipeline Engineering Design Considerations for Crude Oil & Natural Gas

- Location Factors & Effects
- Fluids Types, Load Factor & Capacity Requirements
- Distance & Compression

3. Pipeline Construction Methods

- J-Lay, S-Lay etc.
- Operating Requirement for Contractors
- Contractor Preferred Practices

4. Environmental Aspects of Pipeline Construction

- Environmental Impact Assessment (EIA)
- Social Impact of the Project
- HSE&Q Aspects of Pipeline Projects
- Materials (Contaminants) Discharge during Construction
- Engineering Provision for Pipeline Abandonment

5. The Economics of Pipeline Construction

- Key Cost Components
- Pipeline Capacity & Compressor Capacity
- Cost of Providing Unit Capacity
- Compressor's Optimum Spacing
- Looping & Compressors
- The Timing of Load Build-Up & Rate of Load Growth Unit Cost of Transporting Fluids (CAPEX, OPEX, Throughput Volume, Distance & Load FACTOR AND Ship or PAY)
- Investment Appraisal Yardsticks
- Pipeline Tariff

Who Should Attend?

- Engineers
- Engineering Cost Accountants
- Project Managers & Engineers
- Planning Engineers
- Financial Analysts and Accountants in mind

Venue :

Please visit our website or contact us for details.

Tuition:

£2,950+VAT

5 day program

**5 easy ways to
register or to
make an enquiry:**

1.Web

www.petroconsultenergy.co.uk

2.Email

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