

1 Introduction to Pipeline Feasibility Studies

1.1 Course Description

This course introduces learners to the first stage of the pipeline lifecycle: feasibility. The course covers key topic areas, including the role of the feasibility study within the pipeline lifecycle and the five basic elements of the feasibility study (the project outline, market feasibility, technical feasibility, economic feasibility, and recommendation options presented to decision-makers). Self-assessments are used to reinforce key concepts, and a final graded assessment evaluates the learner's understanding of the material. The online course format provides individuals the flexibility to review and reinforce the material at their own pace. What sets this course apart is that it equips learners with a basic understanding of the first stage of the pipeline lifecycle, which is foundational for further learning in the pipeline industry.

Format: Online

Duration: ~1 hour

Prerequisite Courses & Materials:

Introduction to the Pipeline Industry

1.2 Learning Objectives

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

1. Describe the role of the feasibility study.
2. List and describe the five basic elements of the feasibility study.
3. Describe the four options for decision-makers once the feasibility recommendations have been made.

1.3 Who Should Take This Course

The course is best suited for:

- Individuals seeking basic knowledge about the feasibility stage of the pipeline lifecycle.
- Individuals considering or pursuing careers in the pipeline industry.

1.4 Course Topics

Main topic areas covered in this course include:

- Background
 - The Pipeline Lifecycle
 - The Pipeline Lifecycle Map
 - Balance of Technical & Economic Factors
 - Feasibility Study Outcome
 - Basic Elements of a Feasibility Study
- Feasibility Study Outline
 - Project Idea
 - Feasibility Study Outline
 - Feasibility Study Outline Considerations
- Market Feasibility
 - Market Demand
 - Market Maturity
 - Market Price
 - Government Incentives and Initiatives
 - Market Competition
- Technical Feasibility
 - Complex Technical Issues

- Technical Feasibility Considerations
 - Technical Feasibility Objective
- Economic Feasibility
 - Business Assessment
 - Computer Modeling
 - Economic Feasibility Challenge
 - Economic Feasibility Considerations
 - Break-Even Analysis
 - The Recommendation
- Recommendations
 - Inherent Risk Remaining
 - Loss of Capital
 - Feasibility Study Findings
 - Recommendation Options