

Training Title

ADVANCED PIGGING & INTEGRITY PRACTICES

Training Duration

5 days

Training Venue and Dates

Advanced Pigging & Integrity Practices	5	7th to 11th October, 2024	\$5,500	Dubai, UAE.
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Trainings will be conducted in any of the 4 or 5 star hotels.

Training Fees

- *5,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.*

Training Certificate

Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.

COURSE OVERVIEW

COURSE DESCRIPTION

Pigging is essential for pipelines. Pigging is needed in all the pipelines life stages, during construction, During Operation, and for inline inspection. Pigs can do cleaning to remove depress and other remains after pipe construction to be ready for service. During operation pipeline cleaning to remove wax and black powder will improve the pipeline performance and reduce pumping power. Pigging is used for inline inspection where the present condition of the pipeline can be measured and monitored using recent techniques like MLF and Ultrasonic tools. This will help collecting data for pipeline assessment. These five days course will discuss different aspects of pipeline pigging and its different applications for the pipelines.

COURSE OBJECTIVES:

- *Delegates will learn about different types and designs of pigs.*
- *Delegates will learn different applications of pigs for liquid and gas pipeline*
- *Delegates will learn about the pipeline degradation mechanisms and types of failure*
- *Delegates will learn the fitness-for-service assessment techniques*

SUITABLE FOR:

Engineers and Technicians are involved in pipeline construction, maintenance and operation.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers.

You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

COURSE OUTLINE :-

Day 1: Materials and Sizing

- *Introduction*
- *History of Pipeline Technology*
- *ASME Codes and Standards*
- *API Standards*
- *Fundamentals of Maintenance and Integrity*

Day 2: Pigging System Design Principles:

- *Fundamentals of designing pigging systems.*
- *Key design considerations and factors e.g., pipeline diameter, flow rates.*
- *Design criteria for pig launchers and receivers.*
- *Integration of pigging systems with existing pipelines.*
- *Selection criteria for pigging equipment and components.*
- *Impact of pipeline geometry and materials on design.*

Day 3: Flange and Mechanical Joints

- *Overview of Different Types of Flanges and Application*
- *Gasket and Bolt Selection*
- *Causes of Flange Leaks and How to Resolve*
- *Case Study of Flange Failure*
- *Assembly of Flange Joints and Leak Tightness*
- *Pressure and Leak Testing*
- *The Difference Between Leak Testing and Pressure Testing*
- *Review of Different Testing Techniques*
- *The Purpose of Hydro test*
- *How to Conduct a Hydro test*
- *Pipeline and Piping Systems Testing*

Day 4: Pigging Equipment and Components:

- *Detailed overview of pigging equipment e.g., launchers, receivers.*
- *Types and functions of different pigs e.g., cleaning, inspection, batch pigs.*
- *Material selection for pigging equipment.*
- *Installation and maintenance of pigging components.*
- *Safety features and operational controls of pigging equipment.*
- *Troubleshooting common issues with pigging equipment*

Day 5 : Operational Considerations and Best Practices:

- ***Procedures for pigging operations and workflow.***
- ***Best practices for launching and receiving pigs.***
- ***Handling and storage of pigs and pigging equipment.***
- ***Monitoring and control during pigging operations.***
- ***Addressing and mitigating operational challenges and risks.***

Case Studies, Last Day Review, Discussions & Pre & Post Assessments will be carried out.

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