



*Geology, Drilling & Reservoirs Training Course*

***X-MAS Tree & Wellhead Operations & Testing***

*From 25/09/2023 to 29/09/2023*

*UK – London - Marriott Marble Arch Hotel*

*4950\$ (5% Special Discount for Major Customers & Groups)*

### ***Introduction***

The Xmas Tree and Pipeline Pigging Course are designed to provide comprehensive information's to all aspects of The Xmas Tree and Pipeline Pigging operation, The course will be conducted as lecturers , and attendees will be actively encouraged to participate, The course content will be fully illustrated, with actual Tree and pigs and models being used to aid understanding and help overcome any difficult problems, Comprehensive course notes will be provided, which will form a valuable source of reference afterwards

### ***Objectives***

After completing this course the participants will able to:

- Fully understanding of Tree types and pipe pigging
- Fully understanding of the Xmas Tree Valves
- Understand the operation of Xmas Tree and pipe pigging
- The safety rules during dealing with Xmas Tree valves
- Take the necessary corrective action when there is a problem
- Execute operation problems charismas

### ***The Course Content***

#### ***Introduction***

Production system overview.  
Main Process Sections.  
Wellheads.  
Manifolds / gathering.

Separation.  
Gas compression.  
Metering.

#### ***Well Head Components***

Valves.  
Type of valves.  
Valve maintenance & repair.  
Valve selection

Closing & Penning conditions.  
Chocks.  
Type of chokes.  
Chock maintenance.

***Charismas Tree Maintenance***

Pressure gauges maintenance.	Sludge problems
Temperature gauges maintenance.	Hydrate problems.
Control system.	Downstream shutdown
Down hole Safety valves (SSVS).	Production Operation Problem solving.
Surface Safety valves (SVS).	Down time production.
Well head Troubleshooting.	Quick production problem identification.
Flow line deposits.	Methods of production problems solving.

***Pipeline Safety and Regulations***

- Pipeline failures and regulatory developments.
- Impact of recent legislation and regulations.
- Review of inspection and operation compliance requirements.

***Pigging for Operation and Maintenance***

Pigging during construction.	Magnetic cleaning pigs.
Cleaning pigs.	Designing a Pipeline for Pigging.
Sealing pigs.	Pig traps and pigging stations.
Gauging pigs.	Location and tracking devices.
Dual diameter pigs.	

***In line Inspection (ILI) Tools***

***Theory, Performance, and Detection Limits***

Line Pipe Integrity Threats.	Deformation Tools.
ILI Tools Available to the Operator.	Crack Detection.
Metal Loss Inspection.	

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