MERCURY

Thru-Tubing Systems and Solutions Training Course

6 – 10 September 2027
Rome (Italy)



Dubai - UAE: +971 4 450 5697
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Ref: 15999_1002073 **Date:** 6 – 10 September 2027 **Location:** Rome (Italy) **Fees:** 7200 Euro

Introduction:

Thru-tubing systems play a critical role in oil and gas well intervention and production enhancement, offering cost-effective solutions for maintaining and optimizing oil and gas wells. This Thru-Tubing Systems and Solutions training course provides a comprehensive understanding of thru-tubing operations, tools, and techniques, enabling participants to enhance their technical skills in oil and gas well intervention.

The Thru-Tubing Systems and Solutions course covers coiled tubing and wireline applications, emphasizing tool selection, operational procedures, and troubleshooting challenges. Participants will explore safety considerations, risk mitigation, and efficiency improvements to enhance oil and gas well performance. It provides practical knowledge applicable to real-world scenarios, ensuring participants can implement best practices in the field.

With a focus on thru-tubing technology advancements, the Thru-Tubing Systems and Solutions program introduces the latest innovations driving efficiency in oil and gas operations. It is ideal for professionals looking to enhance their expertise in thru-tubing solutions and intervention techniques. Participants will be equipped with strategic insights and practical skills to improve operational efficiency and oil and gas well longevity.

Targeted Groups:

This Thru-Tubing Systems and Solutions training course targets professionals seeking specialized knowledge and skills.

- Well-intervention engineers looking to enhance their expertise.
- Completion and production engineers managing downhole operations.
- Field service personnel involved in thru-tubing applications.
- Oilfield operators seeking to improve well efficiency.
- Technicians are responsible for tool selection and deployment.
- Drilling and workover engineers focusing on oil and gas well optimization.
- HSE professionals ensure operational safety in well interventions.
- Anyone is interested in learning about advanced well-intervention techniques.

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Course Objectives:

Participants will achieve the following objectives by completing the Thru-Tubing Systems and Solutions course:

- Understand the fundamental principles of thru-tubing systems and their applications.
- Identify the key thru-tubing tools and components used in well intervention.
- Demonstrate knowledge of coiled tubing and wireline intervention techniques.
- Analyze real-world case studies to improve problem-solving skills.
- Apply best practices for tool deployment and retrieval in various oil and gas well conditions.
- Evaluate safety procedures and risk management strategies in thru-tubing operations.
- Develop proficiency in diagnosing and troubleshooting common thru-tubing issues.
- Compare different intervention techniques for well maintenance and optimization.
- Interpret industry standards and regulatory requirements for thru-tubing operations.
- Improve decision-making skills by assessing different tool configurations and applications.
- Optimize operational efficiency by selecting the appropriate thru-tubing intervention method.
- Enhance technical communication skills related to well-intervention procedures.
- Execute planning and execution strategies for efficient thru-tubing well interventions.

Targeted Competencies:

Participants will gain the following competencies during the Thru-Tubing Systems and Solutions program:

- Understanding thru-tubing tools and their applications.
- Applying oil and gas well intervention techniques effectively.
- Assessing operational risks and implementing safety measures.
- Troubleshooting common issues in thru-tubing operations.
- Selecting appropriate thru-tubing tools based on oil and gas well conditions.
- Analyzing case studies for better decision-making.
- Enhancing efficiency in tool deployment and retrieval.
- Evaluating intervention strategies for oil and gas well optimization.

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Course Content:

Unit 1: Introduction to Thru-Tubing Systems:

- Overview of thru-tubing technology and applications.
- Importance of well intervention in oil and gas operations.
- Types of thru-tubing interventions: coiled tubing, wireline, and hydraulic workover.
- Basic principles of well integrity and pressure control.
- Key components and tool classifications used in thru-tubing systems.
- Advantages and limitations of thru-tubing solutions.

Unit 2: Thru-Tubing Tools and Equipment:

- Selection criteria for downhole tools and equipment.
- Coiled tubing tools: motors, mills, and cleanout tools.
- Wireline tools: logging, perforating, and fishing tools.
- Hydraulic workover tools and their applications.
- Functionality and design of thru-tubing packers and plugs.
- Maintenance and inspection procedures for thru-tubing tools.
- Recent innovations and advancements in thru-tubing technology.

Unit 3: Operational Procedures and Best Practices:

- Planning and preparation for thru-tubing interventions.
- Step-by-step guide for tool deployment and retrieval.
- Well-pressure control techniques during interventions.
- Common operational challenges and solutions.
- Fluid and chemical selection for cleanout operations.
- Best practices for minimizing non-productive time NPT.
- Case studies of successful thru-tubing operations.

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Unit 4: Safety, Risk Management, and Troubleshooting:

- Identifying potential hazards in thru-tubing operations.
- Safety protocols and regulatory compliance.
- Pressure control equipment and emergency response measures.
- Troubleshooting mechanical failures in downhole tools.
- Risk assessment and mitigation strategies.
- Managing stuck tools and fishing techniques.
- Real-world problem-solving scenarios in thru-tubing operations.

Unit 5: Advanced Techniques and Performance Optimization:

- Enhancing productivity through advanced thru-tubing interventions.
- Thru-tubing fracturing and stimulation techniques.
- Multiphase well interventions and sand control strategies.
- Innovations in well integrity and zonal isolation.
- Cost analysis and efficiency improvements in thru-tubing operations.
- Evaluating the impact of new technologies on well intervention.
- Future trends in thru-tubing systems and digital advancements.

Final Insights & Key Takeaways:

Thru-tubing solutions are essential for efficient well intervention and production enhancement in the oil and gas industry. A thorough understanding of thru-tubing tools, operational procedures, and safety measures is crucial for success. This Thru-Tubing Systems and Solutions training course equips professionals with the technical knowledge and practical skills to optimize oil and gas well performance. By applying best practices and leveraging new technologies, participants can improve operational efficiency and oil and gas well longevity.