

Stuck Pipe Prevention and Fishing Operations

Improve your Stuck Pipe Prevention and Fishing Operations Knowledge and Skill by Learning Practical Things from the Expert!

Course Level : Basic - Intermediate

19th - 23rd June 2023 at Kuala Lumpur, Malaysia



Petrosync Distinguished Instructor

Magdi El Naggar

Managing Director

Oil Fields Global Consultants (OFGC)

- Officially Certified as Professional Petroleum Engineering Consultant (License 116/7).
- Technical Advisor for several companies in the Middle & Far Easts, Africa and Gulf countries.
- 46 years of professional experience in various phases of Petroleum/Reservoir/Production/Drilling & Workover Engineering and field operations with several multi-national international companies including ARAMCO (Saudi Arabia) and ADCO (UAE).
- Professional in all phases of well intervention operations utilizing coiled tubing and well control as well as extended reach operations.

A lot of
Practical Things,
Case Studies
and Exercises!

Course Objectives

- Understand the importance of hole cleaning in avoiding stuck pipe and be able to
- describe hole cleaning practices for vertical, deviated and horizontal wells.
- Explain essential principles of rock mechanics as it relates to stuck pipe
- Describe and explain various mechanisms of stuck pipe
- Identify the symptoms leading to stuck pipe using a range of case studies
- Understand and describe how stuck pipe can be avoided through good well design
- Learn how to predict and detect early signs of stuck pipe
- Learn the basic principles for successful fishing operation of stuck pipe
- Learn how to design a step by step fishing program & procedures to recover a stuck pipe along with the selection of fishing tool string.

IN-HOUSE SOLUTIONS

SAVE COST • IMPROVE PERFORMANCE • REDUCE RISK

PetroSync understands that in current economic climate, getting an excellent return on your training investment is critical for all our clients. This excellent training can be conducted exclusively for your organization. The training can be tailored to meet your specific needs at your preferred location and time. We will meet you anywhere around the globe.

If you like to know more about this excellent program, please contact us on +65 3159 0800 or email general@petrosync.com

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Course Overview

Pipe sticking is one of the most critical problems in drilling operations.

This course is designed to introduce a comprehensive overview of the stuck pipe problems, problem prevention as well as pipe fishing operations when the problem happens. Stuck pipe prevention a cost effective approach for enhancing operations performance and minimizing non productive time of rigs. Early detection of the problem, which will be one of the major topics of this course will always contribute drastically in eliminating the problem before starting.

Stuck pipe is currently one of the most frequent causes of non-productive time and should not be considered as an inevitable drilling hazard. This short course develops an understanding of how stuck pipe prevention can be managed through improved well design and construction process.

Who Should Attend?

- ▶ Drilling Engineers with 0-10 Years Experience
- ▶ Drilling supervisors with 0-10 Years Experience
- ▶ Completion Engineers with 0-10 Years Experience
- ▶ Production Engineers with 0-10 Years Experience
- ▶ Well Site Engineers with 0-10 Years Experience
- ▶ Rig Staff with 0-10 Years Experience
- ▶ Well Planners with 0-10 Years Experience
- ▶ Well Engineers with 0-10 Years Experience

Training Methods

The training will include full explanation of the modules with detailed practical information along with video clips for actual field cases. It also includes group discussions and daily quizzes to keep the information live. Moreover, Pre & Post course tests will be conducted to measure the trend of the learning process.

PROGRAM SCHEDULE

08:00	Registration (Day1)
08:10 – 10:00	Session I
10:00 – 10:15	1 st Tea Break
10:15 – 12:30	Session II
12:30 – 13:30	Lunch Break
13:30 – 15:00	Session III
15:00 – 15:15	2 nd Tea Break
15:15 – 16:00	Session IV
16:00	End of Day

**Schedule may vary for each training*

WHY YOU SHOULD ATTEND PETROSYNC'S EVENTS

- To ensure that all objectives of the course matches yours, all PetroSync programs are developed after intensive and extensive research within the industry
- PetroSync programs focus on your immediate working issues to ensure that you are able to apply and deliver immediate results in real work situations
- Application and implementation of industry knowledge and experience are the drivers for our course design, not theoretical academic lectures
- PetroSync training focuses on practical interactive learning tools and techniques including case studies, group discussions, scenarios, simulations, practical exercises and knowledge assessments during the course. Invest a small amount of your time to prepare before attending the course to ensure maximum learning
- PetroSync follows a rigorous selection process to ensure that all expert trainers have first-hand, up-to-date and practical knowledge and are leaders of their respective industrial discipline

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Course Agenda

Day 1

Pre-Course Test

Module 1: Drilling Operations, Well Design & Downhole Drilling Problems

- Overview on drilling operations and completion equipment
- Direction and multi-lateral hole
- Extended reach drilling
- Downhole drilling problems
 - ▶ Hole cleaning
 - ▶ Poor hole cleaning
 - ▶ Different transport mechanisms along the wellbore
 - ▶ Drilling Fluid Viscosity & Velocity
 - ▶ Cuttings Characteristics
- Recognizing cuttings and cavings
 - ▶ Drilled cuttings and cavings
 - ▶ Monitoring cuttings volume over the shakers
- Well design and operations
 - ▶ Stuck pipe can be avoided through sound planning and operations
 - ▶ Variables that influence the wellbore conditions that lead to stuck pipe at the planning stage and during operations
 - ▶ Pipe conditions

Case Study:

New Hole Cleaning Criteria

Impact of fluid velocity and viscosity on hole cleaning

Day 2

Quizzes & recap

Module 2: Rock Mechanics & Stuck Pipe Mechanisms

- Essentials of rock mechanics
 - ▶ Principles of rock mechanics
 - ▶ The implications of rock stress and well planning
 - ▶ Hole cleaning and well integrity
- Introduction to Stuck Pipe
- Solids Pack Off
- Differential Pressure
 - ▶ Case History, Exercise and group discussion
- Wellbore Geometry
- What is the pipe sticking problem?
- Causes of pipe sticking
- Types of pipe sticking
 - ▶ Differential sticking
 - ▶ Mechanical sticking
- Stuck pipe mechanisms
 - ▶ Understanding mechanisms leading to stuck pipe

- Differential Sticking & Fluid Spotting Technique
- Mechanical Sticking
- Shales

Case Study:

General literatures

Case stuck pipe well-A

Case stuck pipe well-B

Conclusion & lessons learned

Day 3

Quizzes & recap

Module 3: Stuck Pipe Warning Signs & Prevention Measures

- Definition of Reservoir
- Reservoir Characteristics (Porosity, Permeability, Reservoir Pressure, Reservoir Temperature, Formation Damage, etc)
- Factors affecting Reservoir Flow
- Super-Saturated Reservoir
- Reservoir rock properties
- Reservoir fluids properties
- Factors affecting water flooding

Case Study:

Stuck pipe in heavy mud (mechanism, handling and fishing)

Day 4

Quizzes & recap

Module 4: Stuck Pipe Management & Free Point Determination

- Connection Practices
- ECD Management
- Tripping Practices
- Reaming and Back Reaming Procedures
 - ▶ Case History, Group Exercise and Discussion
- Jar Placement and Operation
- String Separation Options: Cutting and Back-Off
- Fishing Operations
- Differential freeing

Case Study:

3 Case studies by Participants

Day 5

Module 5: Stuck Pipe Fishing Operations

- Hole Trends
- Causes of Deviation Problems
- Kick-Off Plugs
- Fishing Operations
- Fishing Tools Overview

Post-course Test

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Petrosync Distinguished Instructor Magdi El Naggar

Managing Director
Oil Fields Global Consultants (OFGC)

Magdi El Naggar is officially Certified as Professional Petroleum Engineering Consultants (License 116/7). He has 46 years of professional experience in various phases of Petroleum Engineering including Petroleum/Reservoir/Production/Drilling & Workover Engineering as well as field operations with several multi-national international companies including ARAMCO (Saudi Arabia) and ADNOC (UAE). He has extensive professional experiences in all phases of well intervention operations including coiled tubing, especially during well emergency cases, well control and extended reach operations. He specialized in well intervention operations, especially, during emergency cases and well blowouts. He also has extensive experiences in full field development studies, Production Enhancement for oil fields as well as various types of wells, CO2 Injection and EOR operations, IWCF & IADC certification.

Publications

- ▶ Coiled Tubing Operations Standard Procedures
- ▶ Production Engineering Operations Standard Procedures
- ▶ Recently, completed a total of 3,000 research papers in various topics of O & G industry since 2014

Partial Client List

- | | |
|-----------------------------------|-------------------------|
| ▶ SHELL | ▶ OGS (Egypt) |
| ▶ TOTAL (Indonesia) | ▶ APEX |
| ▶ Schlumbergers (Iraq) | ▶ Petromentor (China) |
| ▶ EXXON - ARAMCO | ▶ CNPCIC (China) |
| ▶ ADCO | ▶ Oman Gas |
| ▶ Murphy | ▶ Oman Petrogas |
| ▶ Sapura (Malaysia) | ▶ Sohar Aluminum (Oman) |
| ▶ Arabian Gulf | ▶ Petrofac |
| ▶ GUPCO (Egypt) | ▶ OXY (Oman) |
| ▶ ARAMCO | ▶ Talisman |
| ▶ Osterreichische Mineralol (OMV) | |

Major Related Project

- ▶ Well design and optimization & economics
- ▶ Well planning
- ▶ Well drilling
- ▶ Well problems troubleshooting
- ▶ Well safety during operations and emergency

COURSE DETAILS

Title : Stuck Pipe Prevention and Fishing Operations
Date : 19th - 23rd June 2023
Location : Kuala Lumpur, Malaysia

PROGRAMME CONSULTANT

Contact : Cay Aagen
Email : registration@petrosync.com
Phone : +65 3159 0800

INVESTMENT PACKAGES

Please checklist the package that you are attending!

Stuck Pipe Prevention & Fishing Operations SCHEDULE	LOCATION	PRICE
<input type="checkbox"/> 19 th - 23 rd June 2023	Kuala Lumpur, Malaysia	USD 4,195

* All prices are subject to change without notice and are not guaranteed, except that prices for an order that have been accepted by PetroSync is not subject to change after acceptance

* Price is nett excluding Withholding Tax if any and will be quoted separately. Please send us the withholding tax payment receipt.

DELEGATE DETAILS

1st Delegate Name _____ Mr Mrs Ms Dr Others

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

2nd Delegate Name _____ Mr Mrs Ms Dr Others

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

3rd Delegate Name _____ Mr Mrs Ms Dr Others

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

4th Delegate Name _____ Mr Mrs Ms Dr Others

Direct Line Number: _____ Email: _____

Mobile Number: _____ Job Title: _____

Department: _____ Head of Department: _____

*Please fill all the details including mobile number. This help us to contact participant if they are late in class or if there is any urgent update (through whatsapp/call)

INVOICE DETAILS

Attention Invoice to: _____

Direct Line Number: _____ Fax: _____

Company: _____ Industry: _____

Address: _____ Postcode: _____

Country: _____ Email: _____

Please note:

- Indicate if you have already registered by Phone Fax Email Web

- If you have not received an acknowledgement before the training, please call us to confirm your booking.

PAYMENT METHODS

By Credit Card

By Direct Transfer : Please quote invoice number(s) on remittance advice

PetroSync Global Pte Ltd Bank details:

Account Name : PetroSync Global Pte Ltd

Bank Name : DBS Bank Ltd

Bank Code : 7171 • Bank Swift Code : DBSSSGSGXXX • Branch code : 288

Account No : 0288-002682-01-6 (USD)

Bank Address : 12 Marina Boulevard, Level 3. Marina Bay Financial Centre Tower 3. Singapore 018982

All bank charges to be borne by payer. Please ensure that PetroSync Global Pte Ltd receives the full invoiced amount.

COURSE CONFIRMATION

I agree to PetroSync's payment terms and cancellation policy.

Signature : _____

Date : _____

PAYMENT TERMS : Payment is due in full at the time of registration. Full payment is mandatory for event attendance.

DISCLAIMER

Please note that trainers and topics were confirmed at the time of publishing; however, PetroSync may necessitate substitutions, alterations or cancellations of the trainers or topics or location (classroom / Virtual). As such, PetroSync reserves the right to change or cancel any part of its published programme due to unforeseen circumstances. Any substitutions or alterations will be updated on our web page as soon as possible

DATA PROTECTION

The information you provide will be safeguarded by PetroSync that may be used to keep you informed of relevant products and services. As an international group we may transfer your data on a global basis for the purpose indicated above. If you do not want us to share your information with other reputable companies, please tick this box

CANCELLATION POLICY

Delegates who cancel after the training is officially confirmed run by email, are liable to pay the full course fee and no refunds will be granted. You may substitute delegates at any time as long as reasonable advance notice is given to PetroSync.

In the event that PetroSync cancels or postpones or change the trainer or change the training location (classroom / virtual) of an event for any reason and that the delegate is unable or unwilling to attend in on the rescheduled date, you will receive a credit voucher for 100% of the contract fee paid. You may use this credit voucher for another PetroSync to be mutually agreed with PetroSync, which must occur within a year from the date of postponement.

PetroSync is not responsible for any loss or damage as a result of the cancellation policy. PetroSync will assume no liability whatsoever in the event this event is cancelled, rescheduled or postponed due to any Act of God, fire, act of government or state, war, civil commotion, insurrection, embargo, industrial action, or any other reason beyond management control.

CERTIFICATE OF ATTENDANCE

80% attendance is required for PetroSync's Certificate of Attendance.

DETAILS

Please accept our apologies for mail or email that is incorrectly addressed.

Please email us at registration@petrosync.com and inform us of any incorrect details. We will amend them accordingly.

Find us on Social Media:

 PetroSync Global Pte Ltd

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CHARGES & FEE(S)

- For Payment by Direct Telegraphic Transfer, client has to bear both local and oversea bank charges.

- For credit card payment, there is additional 4% credit card processing fee.