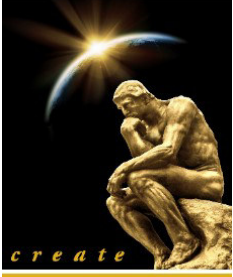
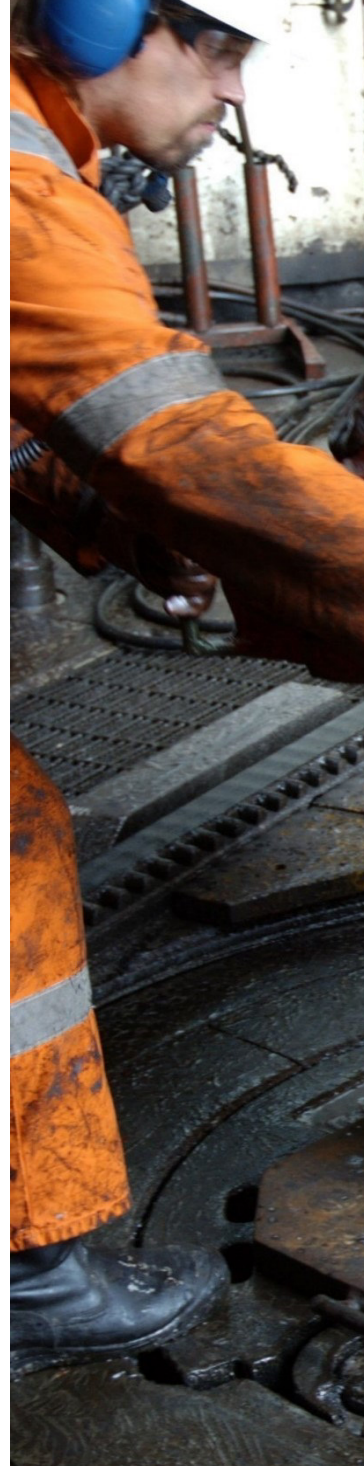


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ADVANCED FISHING



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ADVANCED FISHING

Course Overview

This course has been written for Advanced-level Operator Staff,, Drilling Contractor Staff and Service Company Staff who require an in-depth detailed understanding of downhole fishing – particularly important in today’s low oil price market where the fish must be caught first time. The following media are used:-

- 1) Lectures (the Trainer began his career 35 years ago and has worked both on and offshore worldwide on land rigs, jack-ups, platforms, tender-assist, semi-submersibles and drill ships for Operators & Drilling Contractors);
- 2) PowerPoints (written by the Trainer);
- 3) Videos and Digital Film;
- 4) Case history examples;
- 5) Teamwork exercises at Advanced Level – 8 Sets of well data will be analysed.

The latest fishing methodologies and fishing tools are covered.

Provision is also made for delegates to discuss any aspect of their up-coming wells which are pertinent to their employer’s projects in order to attain success not just first time – but every time.

For each subject area, the benefits of certain industry practices are covered in detail as well as why difficulties are often encountered on the rig.

Solutions are also presented (e.g. optimal practices per the experts) so that the fish to be recovered is incident-free.

Aims & Objectives

By the end of the course, delegates will understand those key drivers behind 100% fishing success rate. Delegates will also benefit from studying successful Case Histories at Advanced Level.

Who Should Attend

Drillers, Toolpushers, OIM’s, Drilling Engineers; Senior Drilling Engineers; Offshore Drilling Engineers; Offshore Supervisors; Drilling Superintendents; Service Company Personnel.

Level

Advanced

Your Dedicated Coach

Michael Gibson (PhD)



❖ *Overview*

- Seasoned professional with 35 years' worldwide experience on drill-ships, semi-submersibles, tender-assist units, platforms, jack-ups and land rigs.
- Extensive experience both onshore and offshore in engineering and operations for Operators and Drilling Contractors on exploration, appraisal & development wells.
- Extensive risk assessment, advisory, planning and rig-site work experience ranging from Drilling Engineer through to Drilling Supervisor, Superintendent & Drilling Manager.

❖ *Training*

Training experience worldwide ranges across Operators, Drilling Contractors and Service Companies both in-house and public in the following areas :-

- HPHT
- Stuck Pipe Prevention & Fishing
- Deepwater Well Engineering
- Deepwater Operations
- Directional Drilling
- Horizontal & Multilateral Wells
- Accelerated Drilling Programmes for Drilling Contractors
- Graduate Drilling Engineering for Operators
- Optimised Drilling Practices
- Well Planning & Engineering
- Well Construction
- Well Control (Advanced, Understanding, Deepwater & HPHT)

❖ *Consultancy*

Engineering & Operations Advisor to Operators, Drilling Contractors, Banks & Insurance Companies worldwide re Drilling & Field Development, Risk & Blowouts

- Hazard Analysis
- Offshore Operations
- Technical Advisor for HPHT Developments
- Well Control
- Technical Advisor for Deepwater Operations

❖ *Project*

- Project Manager for HPHT Field Development; Standard Field Development
- Production Optimisation
- Risk Mitigation
- Brownfield Re-development
- Deepwater
- Well Control
- Management Systems

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ADVANCED FISHING

DAY ONE

PLANNING

Overview of the Planning Process

- Determining the Causal Problem
- Evaluating Downhole Conditions: Are conditions stable or are they deteriorating?
- The Value of Team / Toolbox Talks
- Evaluating the condition of the Top of the Fish
- Junk run? Milling run? Hole clean-out run?
- Tools / BHA / Jarring / Catching / POOH

Assessing the Downhole Situation

- How is the string stuck?
- Formation related sticking mechanisms
- Hole cleaning sticking mechanisms
- Differential Sticking Mechanisms
- Mechanical Sticking Mechanisms

Determining where the string is stuck

- Calculation Method (Oilfield & SI Units)
- Use of Tables Method
- Free-Point Indicator
- Magnetic Flux Tool

DOWNHOLE OPERATIONS

Upper String Recovery

- How to Back-off
- Cutting Pipe – Chemical cut, Plasma cut, Shaped explosive charge cut
- Determining the condition of the top of the fish



Chemically Cut Casings

Lower String (Fish) Recovery

- Cleaning the top of the fish
- Washing over the fish
- Circulating the Hole / Top of the fish clean

Catching the Fish: External Catch (Overshots)

- 150 Series (Long Catch)
- Basket & Spiral Grapples
- Accessories: High Pressure Pack-off Assembly, Mill Guide, Extension, Oversize Guide, Wall Hook Guide, Knuckle Joint, Hollow Mill Container
- 70 Series (Short Catch)
- 10 Series Overshot
- 20 Series Overshot
- Bulldog Overshot
- Kelo Socket Overshot
- TMF Overshot
- Box Tap
- Overshot Jarring Assembly



Spiral & Basket Grapples / Overshots

Catching the Fish: Internal Catch (Spears)

- Releasing Spear
- Spear Pack-Off
- Spear Stop Sub
- Type B Casing & Tubing Spear
- Type D Casing & Tubing Spear
- Type E Spear
- Type L Spear
- Cut & Pull Spear
- Universal Wellhead Retrieving System
- Marine Swivel
- Hollow Pin Tap
- Pin Tap
- Taper Tap



Rotating & Releasing Spear

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ADVANCED FISHING

DAY TWO

Retrieving Junk

- Hydraulic Junk Basket
- Globe Type Junk Basket
- Jet Bushing
- VACS Jet Basket
- The VACS System
- Type "B" Boot Basket
- Wash-pipe Boot Basket
- Internal Boot Basket
- Poor Boy Overshot
- Fishing Magnets: Rig & Wireline
- Casing Scraper
- Circulating Valve & Swivel
- Clean Bore Riser Brush



Poor Boy Catcher (for bit cones for example) & Junk Basket

Lost Sidewall Sample Bullets

- How to deal with them

Freeing Stuck Wireline & Stuck Logging Tools

- Open Hole Electric Line Logging
- Stuck Logging Tool
- Wireline Fishing
- Series 150 Releasing Overshot
- Side Door Overshot
- Wireline Stripping Tools
- "T" Wireline Clamp
- Spear Head Sub and Adapter
- "C" Plate
- Slip Type Rope Socket
- Rope Spear
- Crankshaft Rope Spear
- Fishing Wireline
- Latch Jack Spear
- Cased Hole Sticking
- Key Points for Stripping Over Cable

PACKER FISHING



Packer Picker with Mill

- CJ Packer Milling Tool
- Mechanical PRT
- Hydraulic PRT
- Shear Type PRT
- Typical Packer Milling BHA
- Model B Packer Retriever
- Packer Retriever
- Type "M" Double J-Joint
- CK Packer Retrieving Tool
- CP-3 Plug Packer
- Quick Pick Packer Milling System
- Metal Muncher Rotary Shoe
- Metal Muncher Packer Mill
- Permanent Packer Milling – Rules of Thumb
- Milling Speeds

STUCK CASING

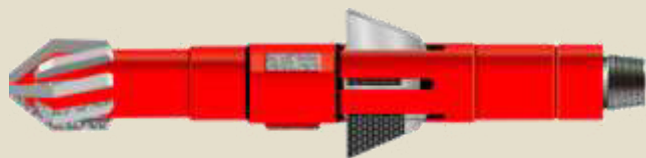
- General Points
- Maximum Pull on Stuck Casing

ADVANCED FISHING

DAY TWO

CASING MILLING GUIDELINES & GENERAL MILLING

- The problems associated with excessive swarf
- Tungsten Carbide Cutters
- Metal Muncher Technology
- Opti-Cut Carbide
- Superloy Carbide
- Diamonds
- Tungsten Carbide Cutters – Application Chart
- Milling & Wash-over Applications
- Machining Time Factors
- Cutting Velocity Calculation
- General Mud Properties
- Section Milling BHA
- Section Milling Animation
- Section Milling – Rules of Thumb
- Model D Section Mill
- Lockomatic™ Section Mill
- Lockomatic Underreamer
- Watermelon Mill/ String Mill
- Metal Muncher Junk Mill
- Conebuster Mill
- Superloy Piranha Junk Mill
- Metal Muncher Junk Mills for Packers & Bridge Plugs
- Metal Muncher Packer Mill
- Tapered Mill
- Metal Muncher Pilot Mill
- Metal Muncher Turbo Pilot Mill
- Pilot Milling Rules of Thumb
- Pilot Milling Guidelines
- Pilot Milling BHA
- Metal Muncher Rotary Shoe
- Metal Muncher Shoe
- Opti-Cut Shoe
- Rotary Shoes



There are many types of mill available

JARS & JARRING

- Bumper Sub
- Oil Jar
- Drill Collars
- Accelerator / Intensifier
- Jarring Assembly
- Jarring BHA



There are many types of Fishing Jar available

FISHING PRACTICES SUMMARY

- Fishing Assemblies
- General Fishing Procedure
- Fishing with Overshots
- Fishing with Spears
- Specialist Tools
- Notes on Jarring

MINIMUM INVENTORY

- Fishing Tools for 26" – 17 ½" – 12 ¼" Hole
- Fishing Tools for 8 ½" Hole
- Fishing Tools for 6" Hole

TEAMWORK EXERCISES

- The class will be sub-divided into Teams where Case Histories will be studied re: fishing events. For each case, Teams will determine:-
 -
 - The optimal overshot and spear which should be used
 - The optimal BHA
 - Optimal hole conditioning
 - Catching the fish first time.

HAND-OUTS

- Everyone in the Class will be given:-
 - A copy of the IDEAS Fishing Handbook and
 - Electronic copies of all of the tool systems we shall be reviewing – 29 in all.



Independent Drilling Engineering AssociateS

IDEAS (Independent Drilling Engineering AssociateS) is a **thinking** company. It **focuses** its in-depth and holistic knowledge, breadth of experience and expertise onto operators, drilling contractors and service companies' drilling engineering and related work requirements, to provide top quality fast turnaround bespoke work packages on either an ad-hoc or long term basis, 24 hrs per day / 365 days per year, worldwide.

Through applying creative thought, ingenuity, experience, integrative life-cycle considerations, fully focused dedication and commitment to problem-solving, **IDEAS** aim to provide the most professional, solution-oriented, cost-effective drilling engineering and related services anywhere around the world at any time.

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Contact Details



- I am interested to register for “Advanced Fishing”
- I would like to contact IDEAS for In-House Training Solutions
- I would like to contact IDEAS for In-House Consultancy Solutions
- Other enquiry

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Job Title : _____

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Department : _____

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