

COURSE OVERVIEW OE0250
Anchor Handling within Offshore Fields

Course Title

Anchor Handling within Offshore Fields

Course Date/Venue

Session 1: January 19-23, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar

Session 2: June 29-July 03, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar



Course Reference

OE0250

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.



Anchor Handling is one of the most demanding and inherently dangerous tasks performed in the Marine service industry. Long hours, bad weather, wet and muddy decks, hand and finger pinch hazards and proximity to heavy buoys and wires under strain are some of the risk factors that must be taken into consideration whenever handling anchors. Recognizing these factors is the first step to working safely.



Barge/Rig move and anchor handling (AH) operations are among the most complex and dangerous operations done by offshore vessels. Steadily increasing water depth and operations under more extreme conditions are challenging the vessels and their crews. After many fatal accidents the ship owners and oil companies now look for a best practice to improve safety under these operations.

This course emphasizes the importance of good preparation for anchor handling, detailed knowledge of the job, continuous risk assessment and a methodical execution of each phase of the operations. These are the bases of a successful anchor handling operations.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain a comprehensive knowledge on anchor handling within offshore fields
- Plan, prepare and carryout anchor handling operations under various conditions
- Increase safety at sea by focusing on the human factors elements, procedures and ship handling
- Define and discuss the anchor theory, practice and catenary mooring system
- Identify the types and behavior of anchor lines, rigging, vessels, chaser and positioning system
- Analyze the running anchors sequence of event, retrieving anchors by PCC and buoyed system, post stowage check and mooring problem
- Demonstrate piggy back system, fishing, grappling, fishing operation pipelying barge mooring work and mooring support
- Discuss heavy lift barge operation, wire rope sling calculation, and operational safety
- Distinguish the wire breakage, slippage and gear failure as well as the tug management and satellite positioning system
- Select anchor handling vessels and identify the deck layout
- Operate and maintain anchor handling equipment and discuss the boat/barge co-operation, deployment of prelaid anchors and boat handling/avoiding danger

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides a complete and up-to-date overview of anchor handling within offshore fields for field managers and superintendents, marine operations managers, marine superintendents, marine supervisors and marine engineers, barge superintendents and deck foremen, captains, masters and marine officers, surveyors and positioning chiefs, HSE management and staff, safety officers, emergency response teams and medics, derrick crane operators, winch engineers and supervisors, deck leaders, deck crew and barge or rig winch operators (possibly drill crew).

Course Fee


US\$ 8,500 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -


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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology’s courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant’s involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant’s CEU and PDH Transcript of Records upon request.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council for Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Captain Val De Rossi (Italy), MSc., MNI is a **Master Mariner** with **over 20 years of experience** in **Marine Operations** within **Oil and Gas industry**. He is currently the **Master/PIC** of an **Oil/Gas Drill Ship** of **Transocean Inc., USA**. He is responsible for the **marine operations** and **seaworthiness of the ship**. His duties also include the ship's **safety, security, stability, dynamic positioning, pollution prevention** and **regulatory compliance**.

Captain De Rossi manages the Drill Ship's compliance on **Quality, Health & Safety**, and **Environment** regulations as laid down by standards: **IMO, MARPOL, Flag State, SIRE, Vetting, ISGOTT, OCIMF, USCG, Oil Terminal, Classification Bodies (LR, DNV, IRS), (HAZOP, JHA)** etc. He is also responsible for the **training and development** of the **ship's officers, cadets and crew, Ship Handling/Navigation watches, Marine Operations Management, Safety Systems Implementation** and **Deck Maintenance**.

As a **Navigating Officer**, Captain De Rossi served four and a half years on different warships. Later, he started working in the **offshore oil industry** where he has achieved **excellent experience** in **different operational environments**. He was able to gain valuable knowledge in **drilling, pipelay construction activities, HSE, Project Management, Environmental Risk** and **Environmental Impact Assessment**.

Captain De Rossi has a **Masters degree** in **Marine Operations & Safety Management** and an unlimited **Master Mariner Certificate of Competency**. He has various articles on **Safety** and **Environment** that have been released in different **nautical publications** in **Europe**.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



Course Program

The following program is planned for this workshop. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:-

Day 1

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0900	Anchor Theory & Practice
0900 – 0930	Catenary Mooring Systems Theory
0930 – 0945	Break
0945 – 1015	Design of Spread Mooring Systems
1015 – 1045	Oil Industry Anchors
1045 – 1115	Anchor Types & Behavior
1115 – 1145	Anchor Line (Wire & Chain)
1145 – 1200	Break
1200 – 1230	Anchor Rigging
1230 – 1300	Chasers
1300 – 1330	Anchor Patterns
1330 – 1400	Basic Planning Steps
1400 – 1420	FAQ's to be Answered
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2

0730 – 0800	Mooring Plan
0800 – 0830	Anchor Handling Vessels
0830 – 0900	Positioning Systems
0900 – 0930	Rig Move Procedures
0930 – 0945	Break
0945 – 1015	Surveys
1015 – 1045	Approvals & Permissions
1045 – 1115	Running Anchors -Summary
1115 – 1145	Boat Equipment
1145 – 1200	Break
1200 – 1230	Running Anchors Sequence of Events
1230 – 1300	Retrieving of Anchors - PCC System
1300 – 1330	Chasers
1330 – 1400	Retrieving Anchors -Buoyed System
1400 – 1420	Post Stowage Checks
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 – 0800	Specialized Anchor Work
0800 – 0830	Mooring Problems
0830 – 0900	Piggy Back Systems
0900 – 0930	Fishing & Grappling
0930 – 0945	Break



0945 – 1015	Piggy Back Anchor Work
1015 – 1045	Fishing Operations
1045 – 1115	Pipelaying Barge Mooring Work
1115 – 1145	Laying Pipe
1145 – 1200	<i>Break</i>
1200 – 1230	Support Moorings
1230 – 1300	Heavy Lift Barge Operations
1330 – 1400	Wire Rope Sling Calculations
1400 – 1420	Items for Considerations When Calculating Dual Lift
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0800	Operational Safety
0800 – 0830	Wire Breakage, Slippage and Gear Failure
0830 – 0900	Positioning Systems
0900 – 0930	Typical Positioning Packages
0930 – 0945	<i>Break</i>
0945 – 1015	Data Display
1015 – 1045	Tug Management Positioning Systems
1045 – 1115	Satellite Positioning Systems
1115 – 1145	Boat Selection & Capability
1145 – 1200	<i>Break</i>
1200 – 1230	Anchor Handling Vessel Selection
1230 – 1300	Characteristics of Anchor Handling Vessels
1330 – 1400	Deck Layouts
1400 – 1420	Mooring System Management
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0800	Anchor Winch Operation (Barge Point of View)
0800 – 0830	Maintenance of Equipment
0830 – 0900	Boat/Barge Co-operation
0900 – 0930	Check Lists Examples
0930 – 0945	<i>Break</i>
0945 – 1015	Deployment of Prelaid Anchors
1015 – 1045	Boat Handling/Avoiding Danger
1045 – 1145	Winch Computer <i>Programming, Monitoring and Operation of Winch Computer and Relevant Control Levers</i>
1145 – 1200	<i>Break</i>
1200 – 1300	Marine Operations <i>Considerations for Moving Semi- Submersibles • Considerations for Moving Jack-Ups</i>





1300 – 1345	Anchor Handling Difficulties & Troubleshooting Mechanical Damage • Handling on Deck • Installation and Recovery • Effect of Anchor Dragging on Subsequent Holding Power • Anchor Failures
1345 – 1400	Course Conclusion
1400 – 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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