



COURSE OVERVIEW OE0250-4D

Anchor Handling within Offshore Fields

Course Title

Anchor Handling within Offshore Fields

Course Date/Venue

December 16-19, 2024/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference

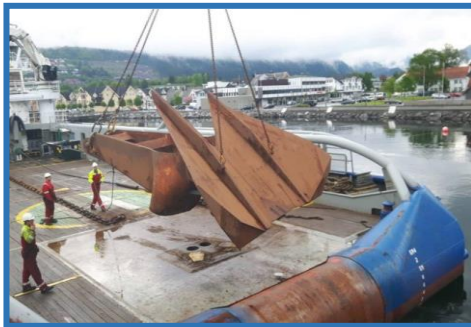
OE0250-4D

Course Duration/Credits

Four days/2.4 CEUs/24 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 pipelaying 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 pre-laid anchors and boat handling/avoiding danger

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Howard Smart Training Kit” (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials, sample video clips of the instructor’s actual lectures & practical sessions during the course 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 Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

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 **2.4 CEUs** (Continuing Education Units) or **24 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 Mike Allen, MSc, BSc, is an International Master Mariner who holds Unlimited Master's & Offshore Installation Manager's (OIM) Licenses and an International Expert in Oil/Gas Marine Operations & Management with over 30 years of oilfield and dynamic positioning experience within the Oil, Gas & Petroleum industries. He is presently the Master-OIM of the Deepwater Pathfinder, Transocean Drilling's flagship DP-3 drillship. He has likewise served as Master on other Dynamically Positioned (DP) 5th and 6th Generation Drill Ships and Semi-submersibles (MODU), as well as DP PSV's and Cable/Pipe Lay Vessels. With his extensive marine and oilfield experience, Captain Allen has also consulted with major international companies such as Shell Oil, Petrobas, British Petroleum (BP) and Chevron, providing him unrivalled experience in offshore international management, single point mooring (SPM), project operations management, ship handling, pilotage simulation, ship-to-ship (STS) operation, marine environmental management, marine bulk oil storage and transportation, shipyard offshore, crude shipments & oil terminal projects and supervision & execution of shipping and port/terminal operations. Further, he is also well-versed in Subsea Pipelines, Pipeline Repair, Corrosion, Cathodic Protection, Pigging and Retrofitting.

Captain Allen holds **Master and Bachelor** degrees in **Education** from the **University of Rhode Island (USA)** and is currently completing a **PhD in Education** at the **University of New Hampshire (USA)**. He is a licensed **USCG Master Unlimited**, certified as captain for all Tonnage and all Oceans as well as an **Unrestricted Offshore Installation Manager (OIM)**. He is certified by the Nautical Institute as an **Unlimited Dynamic Positioning Operator** and holds the esteemed **NEBOSH IGC** safety leadership qualification. He has extensive training and experience in Dynamic Positioning, Automatic Radar Plotting Aids (ARPA), Bridge Resource Management (BRM), Radar Observer (Unlimited), Advanced Marine/Industrial Fire-fighting, Celestial Navigation, OSHA Confined Space Entry & Rescue, Cargo Rigging, STCW-95 Basic Safety Training, First Class (A) Marine Crane Operations, Hazardous Materials transportation (Incident Commander), Maritime Business & Law, Tankerman PIC Barge DL & LG, FCC Marine Radio Operator, PIC Medical Person in Charge.

Captain Allen is also a **Certified Instructor/Trainer** and an **active member of several prestigious organizations** such as the **Nautical Institute**, the **Marine Society**, the **Council of American Master Mariners**, the **American Educational Research Association**, the **Propeller Club**, **Phi Kappa Delta International**, the **American Anthropological Association** and the **Association for Supervision & Curriculum Development**. He spends his shore-side time teaching and conducting research from homes in Halifax, Canada and Rio de Janeiro, Brazil.

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.

Course Fee

US\$ 6,750 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0850	<i>Anchor Theory & Practice</i>
0850 – 0910	<i>Catenary Mooring Systems Theory</i>
0910 – 0930	<i>Design of Spread Mooring Systems</i>
0930 – 0945	<i>Break</i>
0930 – 0950	<i>Oil Industry Anchors</i>
0950 – 1015	<i>Anchor Types & Behavior</i>
1015 – 1040	<i>Anchor Line (Wire & Chain)</i>
1040 – 1100	<i>Anchor Rigging</i>
1100 – 1120	<i>Chasers</i>
1120 – 1145	<i>Anchor Patterns</i>
1145 – 1200	<i>Break</i>
1200 – 1230	<i>Basic Planning Steps</i>
1230 – 1300	<i>FAQ's to be Answered</i>
1300 – 1330	<i>Mooring Plan</i>
1330 – 1400	<i>Anchor Handling Vessels</i>
1400 – 1420	<i>Positioning Systems</i>
1420 – 1430	<i>Recap</i>
1430	<i>Lunch & End of Day One</i>



Day 2

0730 – 0800	<i>Rig Move Procedures</i>
0800 – 0830	<i>Surveys</i>
0830 – 0850	<i>Approvals & Permissions</i>
0850 – 0910	<i>Running Anchors -Summary</i>
0910 – 0930	<i>Boat Equipment</i>
0930 – 0945	<i>Break</i>
0930 – 0950	<i>Running Anchors Sequence of Events</i>
0950 – 1015	<i>Retrieving of Anchors - PCC System</i>
1015 – 1040	<i>Chasers</i>
1040 – 1100	<i>Retrieving Anchors -Buoyed System</i>
1100 – 1120	<i>Post Stowage Checks</i>
1120 – 1145	<i>Specialized Anchor Work</i>
1145 – 1200	<i>Break</i>
1200 – 1230	<i>Mooring Problems</i>
1230 – 1300	<i>Piggy Back Systems</i>
1300 – 1330	<i>Fishing & Grappling</i>
1330 – 1400	<i>Piggy Back Anchor Work</i>
1400 – 1420	<i>Fishing Operations</i>
1420 – 1430	<i>Recap</i>
1430	<i>Lunch & End of Day Two</i>

Day 3

0730 – 0800	<i>Pipelaying Barge Mooring Work</i>
0800 – 0830	<i>Laying Pipe</i>
0830 – 0850	<i>Support Moorings</i>
0850 – 0910	<i>Heavy Lift Barge Operations</i>
0910 – 0930	<i>Wire Rope Sling Calculations</i>
0930 – 0945	<i>Break</i>
0930 – 0950	<i>Items for Considerations When Calculating Dual Lift</i>
0950 – 1015	<i>Operational Safety</i>
1015 – 1040	<i>Wire Breakage, Slippage and Gear Failure</i>
1040 – 1100	<i>Positioning Systems</i>
1100 – 1120	<i>Typical Positioning Packages</i>
1120 – 1145	<i>Data Display</i>
1145 – 1200	<i>Break</i>
1200 – 1230	<i>Tug Management Positioning Systems</i>
1230 – 1300	<i>Satellite Positioning Systems</i>
1330 – 1400	<i>Boat Selection and Capability</i>
1400 – 1420	<i>Anchor Handling Vessel Selection</i>
1420 – 1430	<i>Recap</i>
1430	<i>Lunch & End of Day Three</i>

Day 4

0730 – 0800	<i>Characteristics of Anchor Handling Vessels</i>
0800 – 0830	<i>Deck Layouts</i>
0830 – 0900	<i>Mooring System Management</i>
0900 – 0930	<i>Anchor Winch Operation (Barge Point of View)</i>
0930 – 0945	<i>Break</i>
0930 – 0950	<i>Maintenance of Equipment</i>
0950 – 1015	<i>Boat/Barge Co-operation</i>



1015 – 1040	Check Lists Examples
1040 – 1100	Deployment of Prelaid Anchors
1100 – 1120	Boat Handling/Avoiding Danger
1120 – 1145	Winch Computer Programming, Monitoring and Operation of Winch Computer and Relevant Control Levers
1145 – 1200	Break
1200 – 1300	Marine Operations Considerations for Moving Semi- Submersibles • Considerations for Moving Jack-Ups
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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