



COURSE OVERVIEW OE0040

Optimizing Oil & Gas Marine Terminals
Operations, Management, Maintenance & Safety

Course Title

Optimizing Oil & Gas Marine Terminals:
Operations, Management, Maintenance & Safety

Course Date/Venue

Session 1: March 29-April 02, 2026/Meeting Plus 9, City Centre Rotana, Doha Qatar

Session 2: September 06-10, 2026/Meeting Plus 9, City Centre Rotana, Doha Qatar



Course Reference

OE0040

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using “MS Excel” applications.

This course is essential for marine terminal personnel. All applicable marine terminal regulations (current & proposed) and policies pertaining to marine transfer operations and spill contingency planning will be discussed. Attendants will receive a solid foundation of the requirements for oil & hazardous material facilities and transfer operations.



The course will concentrate on Oil & Gas Marine Terminals and will cover all Operational and Managerial requirements for Oil/Gas marine terminals from the Human Factor up to the Vessel/Tanker operations within the oil/gas industry. This will cover the On-shore/Off-shore Terminals, Hydrocarbon properties & Handling, Regulations & Requirements, Terminal Planning, Vessel Operations, Terminal Management & Operations, Security & Safety and other essential topics related to Export/Import Oil & Gas.



The topics presented during this training course will provide companies with the information necessary to meet current and proposed compliance requirements more economically while maintaining the highest level of safety.



Course Objectives

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

- Optimize the operations of oil and gas marine terminals
- Apply an in-depth knowledge on operations and management of oil and gas marine terminals
- Implement the international regulations and requirements for the oil and gas marine terminals and acknowledge the importance of the human factor in the operation and management of the marine terminal
- Employ proper planning techniques in stowage and transfer systems and command the various planning and transfer requirements for oil and gas marine terminal
- Discuss the different vessel operations in the oil and gas marine terminal such as oil tankers (crude & product) and gas carriers (LNG / LPG)
- Gain a good terminal management skill and employ the various terminal support operations such as berthing support, cargo transfer support, emergency response and vessel departure support
- Apply proven safe practices and procedures during the various operations in oil and gas terminals and manage oil spill contingency and emergency response plans
- Employ proper qualitative and quantitative risk assessment techniques in oil and gas marine terminal operations

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 covers the systematic techniques of optimizing oil and gas marine terminals for marine terminal managers, superintendents, supervisors, engineers, port captains, custody superintendents, facility managers, facility training coordinators, safety & environmental managers/engineers/officers, spill management team members, transfer supervisors, marine shipping coordinators and dock maintenance planners.

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 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: -

- 
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.

- 
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.

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.

Accommodation

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

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:



Mr. David Main is a **Senior Inspection Engineer** with extensive years of practical experience within the **Oil, Gas and Petrochemical** industries. His fields of specialization cover the areas of **Optimizing Equipment Availability, Optimizing Equipment Maintenance & Replacement Decisions, Coating Inspection, Paintings & Coating Technology, Plastic & Powder Coating, Protective Coating Technology, Coatings in Construction with Cathodic Protection (CCCP), Coating & Thermal Insulation, Steel Pipes Protective Coatings, Steel & Composite, Mixing & Applications, Concrete Mixtures, Concrete Repair & Concrete Protection, Concrete Testing, Blasting & Painting, Abrasive Blasting, UHP Blasting, Blast Track Operator Program, Oxifree Technician Program, Industrial Spray Application, Inspection & Maintenance of Process Equipment, Asset Management, Set Building, Scaffold Inspection, Basic Rigging, Rope Access, Permit to Work (PTW), Leading Toolbox Talks, Helicopter Underwater Escape Training (HUET) and Offshore Survival Training (First Aid, Firefighting & Self Rescue)**. Further, he is also knowledgeable with international industry standards such as **ASME, API, TEMA, BS/EN, ANSI & AWS**. He is currently the **Team Manager** of Prometric Offshore Services, Ivory Coast.

During his career life, Mr. David has gained his practical and field experience through his various significant positions and dedication as the **Project Manager, HSE Representative, Event Specialist, Painting Supervisor, Asset Integrity Team Leader, Process Technician, Rope Access Maintenance Technician, Painter/Blaster, Production Assistant** and **Senior Instructor/Trainer** from Prometric, Cote D'Ivoire, Henn's Panel, G&J Repairs, Graeme Liron, Steel & Composite Solutions, Corrocoat, Gearhouse Group, Mungus Production, AS Production, just to name a few.

Mr. David is a **Certified Paint Applicator (PA1)** from South African Qualification and Certification Committee (**SAQCC**) for **Corrosion Protection**. Further, he is a **Certified Coatings Inspector (CIP) Level 2** and a **Certified Cathodic Protection Tester (CP1)** from **NACE International**, a **Certified NEBOSH International General Certificate in Occupational Health & Safety**, a **Certified NEBOSH National General Certificate in Occupational Health & Safety**, a **Certified Rope Rescue Technician Level 1** from **IRATA International**, a **Certified Instructor/Trainer** and holds a certificate of an Approved **OPITO-Survival Offshore Training** and has further delivered numerous trainings, courses, seminars, conferences and workshops internationally.



Course Program

The following program is planned for this course. 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 – 0930	The Onshore/Offshore Oil & Gas Marine Terminal Introduction of Director & Course Participants – Alignment of Expectations • Introduction to the Course with Outline of Course Objectives (Pre-Reads) • Definitions to be Used in the Course & in Line with Terminal Practice (Pre-Reads) • Basic Properties of Hydrocarbons & Types of Cargoes – Why the Terminal? • Historical Developments
0930 – 0945	Break
0945 – 1200	Oil & Gas Marine Terminal: Regulations & Requirements Regulations for Terminals & for Vessels while at Terminals (International, National, Local Port, Terminal)
1200 – 1215	Break
1215 – 1330	Oil & Gas Marine Terminal: Regulations & Requirements (cont'd) Major Terminal Management Concerns (Fire, Weather, Pollution, Ship Stability & Integrity, Communications, Documentation, Adequacy of Emergency Response Plans, Adequately Trained Terminal & Vessel Personnel)
1330 – 1420	Oil & Gas Marine Terminal – The Human Factor The Human Factor in Terminal Operations
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2

0730 – 0930	Oil Terminal Planning-Stowage & Transfer Systems Terminal Planning Factors–Onshore & Offshore
0930 – 0945	Break
0945 – 1100	Gas Terminal Planning-Stowage & Transfer Systems Terminal Planning Factors–Onshore & Offshore
1100 – 1230	General Terminal Planning & Transfer Requirements Terminal Planning Factors
1230 – 1245	Break
1245 – 1420	General Terminal Planning & Transfer Requirements (cont'd) Terminal Planning Factors (cont'd)
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 – 0930	Vessel Operations (Oil Tankers – Crude & Product) Planning Oil Tanker Stowage & Cargo Transfer Handling • Vessel Stability & Structural Integrity Considerations • Loading • Discharging • Ballasting • Tank Cleaning
0930 – 0945	Break





0945 – 1100	Vessel Operations (Gas Carriers – LNG/LPG) Planning Gas Carrier Stowage & Cargo Transfer Handling • Vessel Stability & Structural Integrity Considerations • Loading • Discharging • Ballasting • Re-Liquefaction • Cool Down
1100 – 1230	Vessel Operations (Special Topics) The Use of Inert Gas Systems • The Use of Crude Oil Washing & Tank Cleaning • Ballasting Systems for Tankers & Gas Carriers
1230 – 1245	Break
1245 – 1420	Vessel Operations (Special Topics) (cont'd) Consideration of Pumping Rates & Charter Parties • Documentation Requirements
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0930	Terminal Management & Support Operations Management & Supervision • Terminal Support Operations
0930 – 0945	Break
0945 – 1100	Terminal Management & Support Operations (cont'd) Safety & Security in the Marine Terminal • Maintenance & Repair
1100 – 1200	Safe Operations in Oil & Gas Terminals Safety & Safety Culture • Weather Considerations • Hazardous Cargoes
1200 – 1215	Break
1215 – 1420	Safe Operations in Oil & Gas Terminals (cont'd) Topping Off Considerations & Procedures • Fire Prevention & Containment • Fire Fighting Systems & Procedures
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0900	Oil Spill Contingency & Emergency Response Plans
0900 – 0915	Break
0915 – 1045	Qualitative & Quantitative Risk Assessments
1045 – 1200	Workshop: Port Charges in the Arabian Gulf States
1200 – 1215	Break
1215 – 1345	Open Forum
1345 – 1400	Course Conclusion
1400 – 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course



Simulators (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our “MS Excel” application.

The screenshot shows a Microsoft Excel spreadsheet with the following data table:

Produto	top	consultas	compras	devoluções	débito	crédito
perfumes	32.764	36.684	18.989	44	27,78%	68,79%
cosmética	31.559	23.527	22.177	71	12,30%	60,53%
têxtil	21.494	22.165	11.452	41	28,10%	71,36%
comida	20.077	22.429	10.726	48	16,70%	78,29%
bebida	17.787	20.774	9.911	40	21,70%	74,93%
bricolage	11.921	13.894	5.837	44	32,46%	60,42%
sapataria	11.457	11.373	866	44	29,83%	85,74%
moda	11.057	11.366	7.704	50	22,16%	79,91%
livraria	10.988	12.813	11.443	48	22,89%	80,17%
música	10.161	12.066	7.810	61	34,82%	64,42%
jardim	8.295	8.543	5.398	53	18,33%	88,38%
lazer	8.241	8.874	3.898	34	18,97%	82,61%
esportes	7.808	8.681	4.369	70	31,30%	62,05%

Below the table are two charts: a grouped bar chart on the left showing values for 'crédito', 'débito', 'devoluções', 'compras', 'consultas', and 'top' across product categories; and a 3D pie chart on the right showing the distribution of these categories.

MS Excel

Course Coordinator

Reem Dergham, Tel: +974 4423 1327, Email: reem@haward.org