



**COURSE OVERVIEW OE0040-4D**  
**Optimizing Oil & Gas Marine Terminals**  
*Operations, Management, Maintenance & Safety*

**Course Title**

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

**Course Date/Venue**

August 19-22, 2024/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

**Course Reference**

OE0040-4D

**Course Duration/Credits**

Four days/2.4 CEUs/24 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, 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 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.

### 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.

### 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:



**Captain Sergey Kole**, is an **International Expert** in **Port Operations & Logistics Management** with over **25 years** of **onshore** and **offshore** experience within the **Oil & Gas, Petroleum** and **Refinery** industry. His expertise widely covers in the areas of **Anatomy of Shipping, Logistics & Transportation Planning** Methods, **Forecasting Logistics** Demands, Visual Network Model, **Logistics Operations, Tanker Vetting & Inspection, Marine Vetting & Audit Criteria Manual for Tank Ships, Marine & Ship Vetting, Vetting Process & Marine Safety Criteria, Tanker Vetting for Terminals, Ship Vetting, Marine Terminal Operations & Management, Marine Hazards** Prevention & Control, **Marine Communication Systems, Marine Safety, Ship Management, Oil Terminal Planning, Vessels Operations, Terminal Management & Support Operations, Oil Spill Contingency & Emergency Response Plan, Qualitative & Quantitative Risk Assessments, Terminal Planning, Oil Tanker Storage Planning, Cargo Transfer Handling, Loading & Discharging, Ballasting, Tank Cleaning, Crude Oil Washing, Ship Handling, Radar Navigation, Navigational Aids, Meteorological Data Review, Sea & Weather Condition Monitoring, ERT Vessel Coordination and Transport & Distribution Carrier**. Further, he is well-versed in **Sea-going Personnel Human Resource Management, Survival Craft & Rescue Boats, Dynamic Positioning, Anti-Piracy Preparedness & Response, Shipping Maintenance System, Oil & Chemical Tanker, Liquefied Gas Tanker, Inert Gas System, Crude Oil Tanker & Gas Carrier, Offshore Logistics & Supply Management, Marine Fleet Management & Operations, International Maritime Conventions & Codes, Marine Radar, Port Traffic Control Systems & Instrumentation, H<sup>2</sup>S Hazard Awareness, Firefighting, Medical Care Onboard, Carriage of Dangerous & Hazardous Substances and Ballast Water & Sediment Management**.

During his career life, Captain Sergey has gained his technical and marine expertise through various challenging key positions such as being the **Captain, Operations Director, Project Manager, Port Supervisor, Master** of General Cargo Ship, **Master** of Container Ship, **Chief Officer, Marine Operations Specialist, Marine Coordinator, On-call Duty Officer, Crewing Consultant, 2<sup>nd</sup> Officer, Ship Chandler** and **Senior Instructor/Trainer** for several international companies such as **ZADCO, AMEC Foster Wheeler, Fircroft Engineering Services, Ltd., Rusalina Yacht Company, Van Oord Offshore, Exxon Neftegaz Ltd (ENL), Jr Shipping, Carisbrooke Shipping, Unicorn Petrol ve Kimya, Q Shipping BV, m/v Tradeport, Miedema Shipping CV, Rah Management BV, Petrobulk Maritime Inc., Empross Lines Ship Management, Melcard Ltd., Aquarian Shell Marine Inc., Mercy Baaba and Square Ltd.**

Captain Sergey has a **Bachelor's** degree in **Navigation in Nautical Studies** from the **Kiev State Academy of Water Transport, Ukraine** and holds a **Master Mariner (Unlimited)** Certificates of Equivalent Competency from the **MCA, UK** and **NSI, Netherlands**. Further, he is a **Certified Instructor/Trainer, a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and has delivered various trainings, courses, seminars, workshops and conferences internationally.



**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.

**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: Monday, 19<sup>th</sup> of August 2024**

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	<b>PRE-TEST</b>
0830 – 0930	<b>The Onshore/Offshore Oil &amp; Gas Marine Terminal</b> 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	<b>Oil &amp; Gas Marine Terminal: Regulations &amp; Requirements</b> Regulations for Terminals & for Vessels while at Terminals (International, National, Local Port, Terminal)
1200 – 1215	Break
1215 – 1330	<b>Oil &amp; Gas Marine Terminal: Regulations &amp; Requirements (cont'd)</b> Major Terminal Management Concerns (Fire, Weather, Pollution, Ship Stability & Integrity, Communications, Documentation, Adequacy of Emergency Response Plans, Adequately Trained Terminal & Vessel Personnel)
1330 – 1420	<b>Oil &amp; Gas Marine Terminal – The Human Factor</b> The Human Factor in Terminal Operations
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day One

**Day 2: Tuesday, 20<sup>th</sup> of August 2024**

0730 – 0930	<b>Oil Terminal Planning-Stowage &amp; Transfer Systems</b> Terminal Planning Factors–Onshore & Offshore
0930 – 0945	Break
0945 – 1100	<b>Gas Terminal Planning-Stowage &amp; Transfer Systems</b> Terminal Planning Factors–Onshore & Offshore





1100 – 1230	<b>General Terminal Planning &amp; Transfer Requirements</b> Terminal Planning Factors •
1230 – 1245	Break
1245 – 1420	<b>Vessel Operations (Oil Tankers – Crude &amp; Product)</b> Planning Oil Tanker Stowage & Cargo Transfer Handling • Vessel Stability & Structural Integrity Considerations • Loading • Discharging • Ballasting • Tank Cleaning
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Two

**Day 3: Wednesday, 21<sup>st</sup> of August 2024**

0730 – 0930	<b>Vessel Operations (Gas Carriers – LNG/LPG)</b> Planning Gas Carrier Stowage & Cargo Transfer Handling • Vessel Stability & Structural Integrity Considerations • Loading • Discharging • Ballasting • Re-Liquefaction • Cool Down
0930 – 0945	Break
0945 – 1100	<b>Vessel Operations (Special Topics)</b> The Use of Inert Gas Systems • The Use of Crude Oil Washing & Tank Cleaning • Ballasting Systems for Tankers & Gas Carriers • Consideration of Pumping Rates & Charter Parties • Documentation Requirements
1100 – 1230	<b>Terminal Management &amp; Support Operations</b> Management & Supervision • Terminal Support Operations • Safety & Security in the Marine Terminal • Maintenance & Repair
1230 – 1245	Break
1245 – 1420	<b>Safe Operations in Oil &amp; Gas Terminals</b> Safety & Safety Culture • Weather Considerations • Hazardous Cargoes • Topping Off Considerations & Procedures • Fire Prevention & Containment • Fire Fighting Systems & Procedures
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Three

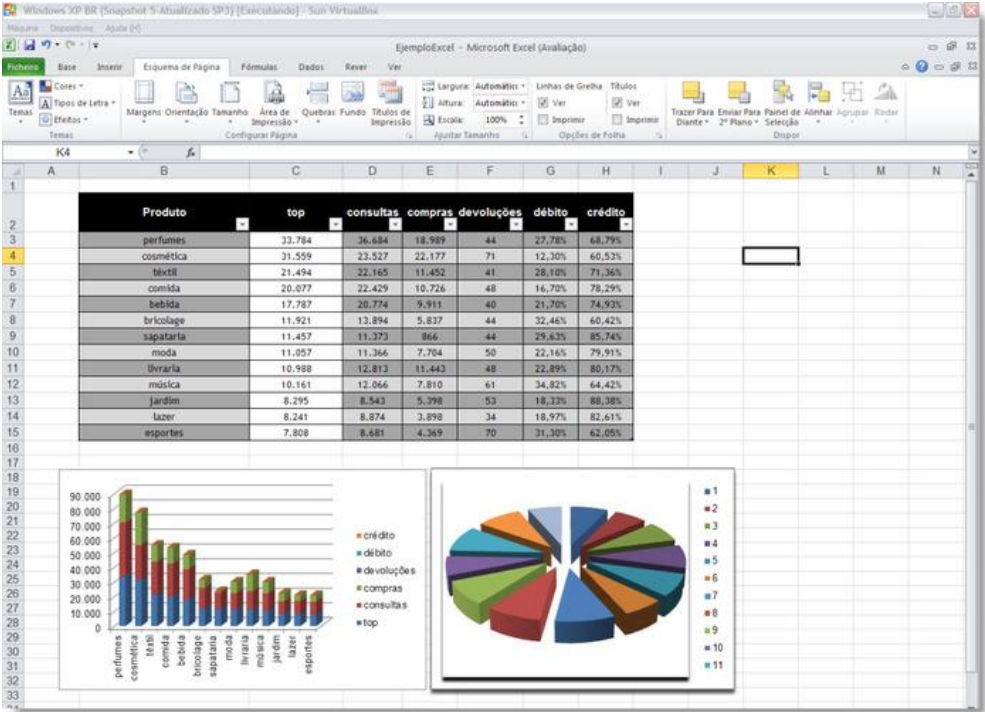
**Day 4: Thursday, 22<sup>nd</sup> of August 2024**

0730 – 0900	<b>Oil Spill Contingency &amp; Emergency Response Plans</b>
0900 – 0915	Break
0915 – 1045	<b>Qualitative &amp; Quantitative Risk Assessments</b>
1045 – 1200	<b>Workshop: Port Charges in the Arabian Gulf States</b>
1200 – 1215	Break
1215 – 1345	<b>Open Forum</b>
1345 – 1400	<b>Course Conclusion</b>
1400 – 1415	<b>POST-TEST</b>
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	33.794	36.684	18.999	44	27,78%	68,79%
cosmética	31.559	23.527	22.177	71	12,30%	60,53%
textil	21.494	23.165	11.492	41	28,10%	71,36%
comida	20.077	22.429	10.726	48	14,70%	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	29,63%	85,74%
moda	11.057	11.366	7.704	50	22,14%	79,91%
livraria	10.998	12.813	11.443	48	22,89%	80,17%
música	10.141	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	8.481	4.369	70	31,30%	62,05%

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

**MS Excel**

**Course Coordinator**

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