

**COURSE OVERVIEW OE0111**  
**Risk-Informed Decision-Making**

**Course Title**

Risk-Informed Decision-Making

**Course Date/Venue**

Session 1: June 11-15, 2023/Boardroom 1,  
 Elite Byblos Hotel Al Barsha,  
 Sheikh Zayed Road, Dubai, UAE  
 Session 2: February 11-15, 2024/Venue 1  
 Meeting Room, Sheraton Cairo  
 Hotel & Casino, Cairo, Egypt



**Course Reference**

OE0111



**Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs

**Course Description**



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



Risk assessment is typically applied as an aid to the decision-making process. As options are evaluated, it is critical to analyze the level of risk introduced with each option. The analysis can address financial risks, health risks, safety risks, environmental risks and other types of business risks. An appropriate analysis of these risks will provide information which is critical to good decision making, and will often clarify the decision to be made. The information generated through risk assessment can often be communicated to the organization to help impacted parties understand the factors which influenced the decision.



As corporations have become more familiar with risk assessment techniques, these techniques are applied more frequently to improve their decision-making processes, even when there is no regulatory requirement to do so. As access to data and analytical techniques continues to improve, risk assessment will continue to become easier to perform and more applications, both mandatory and voluntary, can be expected.

This course is intended to provide an overview of the risk assessment field for managers and technical professionals in the Maritime and Offshore Oil and Gas industries. The risks addressed are primarily those affecting the safety of a vessel, facility or operation, but the methods discussed can also be applied to other types of risk. The concept of risk is defined, and the methods available to assess the risks associated with an operation are described. Guidelines for setting up and conducting successful risk studies are provided. Regulatory requirements that have prompted the development of modern risk assessment practices are described, and future regulatory trends are discussed. And finally, examples of risk assessment applications are discussed

### **Course Objectives**

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

- Apply and gain in-depth knowledge on risk assessment implementation for the marine and offshore oil and gas industries
- Define risk assessment and its basics
- Employ risk assessment methods covering the risk assessment process, hazard identification methods, frequency assessment methods, consequence assessment methods and risk evaluation and presentation
- Conduct risk assessment that includes setting up of a risk analysis, selecting the right approach, conducting assessment and follow-up
- Identify risk limitations and potential problems
- Recognize marine systems as well as offshore oil and gas systems covering its hazards and safety regulations
- Explain the benefits of risk assessment applications through identifying hazards and protecting against them, improving operations, efficient use of resources and developing or complying with rules and regulations
- Implement proper risk based inspection that includes qualitative screening and quantitative model for equipment with measureable damage rate

### **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 provides a complete and up-to-date overview of risk assessment implementation for the marine and offshore oil & gas industries for all marine and HSE professionals such as captains, masters, mates, engineers, supervisors, foremen and officers. Further, the course is beneficial to logistic and marine terminal staff.

### 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 **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.

### Training Methodology

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Workshops & Work Presentations
- 20% Case Studies & Practical Exercises
- 30% Videos, Software & Simulators

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

### **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 Emilio Tapias**, MSc, MBA, BSc, is an **International Expert in Port Operations & Management** with over **40 years** of field experience. His expertise evolves in **Marine Terminal Operations & Management, Marine Survey, Offshore Survey, International Ship and Port Facility Security Code (ISPS) Code, Tanker Vetting Inspections, Registry & Inspection of Ship Tankers and Dry Cargo Vessels, Bridge Resource Management (BRM), Crude Oil Tanker & Gas Carrier, Dock & Terminal Operations, LPG/LNG, Ships Handling, Prevention and Management of Marine Corrosion, Marine Communication Systems, OCIMF, CIRE, CDI, COW/IG, ECDIS, GMDSS, HUET, VTS, ARPA, ISM, and ISPS**. Further, he is an expert in Detection & Control on Ships & Offshore Operation, Marine Pollution, Handling of Dangerous Goods in Ships & Terminals, Survival from Ships & Offshore Structures, Firefighting, Fire Prevention, Medical First Aid & Medical Care. Currently, he is the **Chairman** of the **International Ships Register** in **Spain** that provides marine consultancy services, investigation, registry and ships inspection.

During his career life, Captain Tapias has gained his technical and marine expertise through various challenging and key positions such as the **Marine Training Director, Marine Ship Chairman, Marine School Chairman, Master & Chief Officer, Consultant, Marine Auditor, Marine Surveyor, Nautical Inspector, Chemical Vessels Construction Supervisor, Ship Filing Agent, Ship Special Agent, Ship Registration Agent and Representative Agent & Inspector/Auditor** for several international companies.

Captain Tapias has a **Master** degree in **General Management** from the **Escuela Internacional De Negocios – CEREM**, a **Master** in **Spanish Merchant Marine** and in **Marine Control** from the **Canary Government of Spain**, and an **MBA** from the **University of Complutense (Madrid)**. He holds a **Certification** in **Business Management** from the **Spanish Ministry of Industry** and in **Economic Sciences** from the **University Complutense, Madrid**. Further, he is a **Certified Marine Firefighter**, a **Certified Marine Surveyor**, **Port State Control Inspector** and **ISPS Officer**, a **Certified Auditor** in **Environmental Management**, a **Certified Instructor/Trainer** and a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**. He has obtained **multiple certifications** in **Firefighting, Survival Craft, Ship Tankers, Crude Oil Tankers, Gas Carriers, Chemical Carriers, Ships Handling, Bunkering, Marine Loss Control, Marine Pollution Control** and many more. He has further delivered numerous trainings, workshops, courses and conferences worldwide.

### Course Fee

Dubai	<b>US\$ 8,000</b> per Delegate + <b>VAT</b> . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Cairo	<b>US\$ 8,000</b> per Delegate + <b>VAT</b> . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), 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 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	<i>Registration &amp; Coffee</i>
0800 – 0815	<i>Welcome &amp; Introduction</i>
0815 – 0830	<b>PRE-TEST</b>
0830 – 0930	<b>Introduction</b> <i>Risk Assessment Definitions • The Basics of Risk Assessment • Risk Model Outputs • Risk Based Insights • Risk-Return Tradeoffs</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<b>Risk Assessment Methods</b> <i>The Risk Assessment Process • Hazard Identification Methods</i>
1100 – 1230	<b>Risk Assessment Methods (cont'd)</b> <i>Frequency Assessment Methods • Consequence Assessment Methods</i>
1230 – 1245	<i>Break</i>
1245 – 1420	<b>Risk Assessment Methods (cont'd)</b> <i>Risk Evaluation &amp; Presentation</i>
1420 – 1430	<b>Recap</b>
1430	<i>Lunch &amp; End of Day One</i>

#### **Day 2**

0730 – 0900	<b>Conducting a Risk Assessment</b> <i>Set Up a Risk Analysis</i>
0900 – 0930	<i>Break</i>
0930 – 1100	<b>Conducting a Risk Assessment (cont'd)</b> <i>Selecting the Right Approach</i>
1100 – 1215	<b>Conducting a Risk Assessment (cont'd)</b> <i>Conducting the Assessment and Follow-up</i>
1215 – 1230	<i>Break</i>
1230 – 1420	<b>Conducting a Risk Assessment (cont'd)</b> <i>Risk Assessment Limitations and Potential Problems</i>
1420 – 1430	<b>Recap</b>
1430	<i>Lunch &amp; End of Day Two</i>



**Day 3**

0730 – 0900	<b>Marine Systems: Hazards &amp; Safety Regulations</b> Major Hazards Related to Shipping
0900 – 0930	Break
0930 – 1100	<b>Marine Systems: Hazards &amp; Safety Regulations (cont'd)</b> Potential Consequences of Shipping Accidents
1100 – 1215	<b>Marine Systems: Hazards &amp; Safety Regulations (cont'd)</b> Regulations Governing Safety and Shipping
1215 – 1230	Break
1230 – 1420	<b>Marine Systems: Hazards &amp; Safety Regulations (cont'd)</b> Conclusions and Future Trends
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Three

**Day 4**

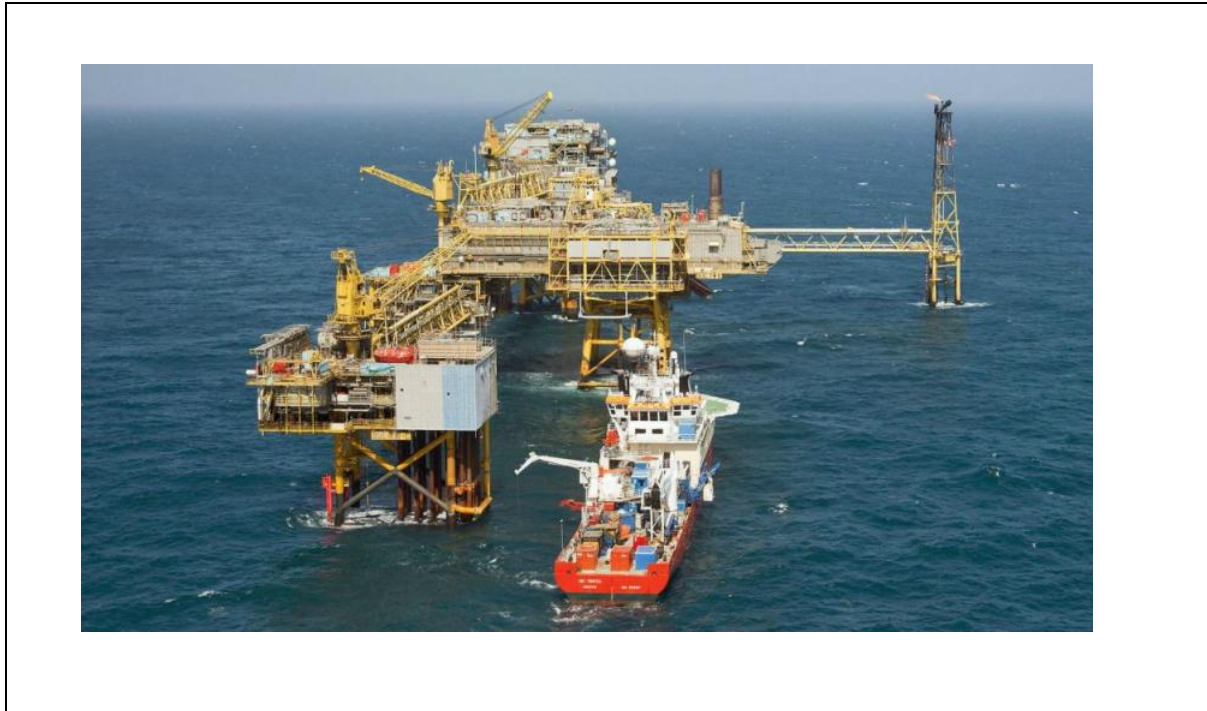
0730 – 0830	<b>Offshore Oil &amp; Gas Systems: Hazards &amp; Safety Regulations</b> Major Hazards of Offshore Oil and Gas Production
0830 – 0930	<b>Offshore Oil &amp; Gas Systems: Hazards &amp; Safety Regulations (cont'd)</b> Historical Progression of Regulations Governing Offshore Oil and Gas Development
0930 – 1100	Break
1100 – 1230	<b>Offshore Oil &amp; Gas Systems: Hazards &amp; Safety Regulations (cont'd)</b> Key Nations' Offshore Oil and Gas Regulatory Development
1230 – 1330	Break
1330 – 1420	<b>Offshore Oil &amp; Gas Systems: Hazards &amp; Safety Regulations (cont'd)</b> Conclusions and Future Trends
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Four

**Day 5**

0730 – 0930	<b>Benefits of Risk Assessment Applications</b> Identifying Hazards and Protecting Against Them • Improving Operations
0930 – 0945	Break
0945 – 1200	<b>Benefits of Risk Assessment Applications (cont'd)</b> Efficient Use of Resources (ALARP/Cost Benefit Analysis) • Developing or Complying with Rules and Regulations
1200 – 1215	Break
1215 – 1315	<b>Risk Based Inspection</b> Qualitative Screening
1315 – 1420	<b>Risk Based Inspection (cont'd)</b> A Quantitative Model for Equipment with Measurable Damage Rate
1315 – 1345	<b>Conclusion</b>
1345 – 1400	<b>Course Conclusion</b>
1400 – 1415	<b>POST-TEST</b>
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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