Arab Academy

for Science, Technology & Maritime Transport



Maritime Sector

President's Word



At the forefront of maritime excellence in the Arab and African regions, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) stands as a beacon of leadership, innovation, and global impact. For decades, the Academy has played a pivotal role in advancing the maritime sector by developing highly qualified professionals and supporting the sustainable growth of the industry.

Through its integrated system of colleges, specialized institutes, and advanced training centers, AASTMT delivers world-class education and hands-on training aligned with international standards. From maritime transport and engineering to safety, security, and simulation technologies, the Academy continues to shape a new generation of leaders equipped to meet the challenges of a rapidly evolving global maritime landscape.

Driven by a vision of excellence and continuous innovation, AASTMT remains committed to empowering future generations, strengthening regional and international partnerships, and contributing effectively to the development of maritime transport and related industries worldwide.

Prof. Dr. Ismail Abdel Ghafar Ismail Farag

President of the Arab Academy for Science,
Technology and Maritime Transport

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College of Maritime Transport and Technology





College Message

It's a pleasure to welcome the Arab and African youth, the future leaders of Maritime Transport and Technology College, where versatile opportunities are available for those who are interested in being certified and qualified seafarers on-board foreign going vessels through achieving their Certificate of Competency (COC) as deck or engineer officer. Giving them vast opportunities to develop their career by working on national and international merchant marine fleets.

The collage also offers a bachelor degree in Maritime Transport Technology and Marine Engineering Technology as well as educational and training programs in Meteorology, Hydrographic Survey and Diving. All courses are taught by highly qualified lecturers.

The existence of the College as one of the main units in an integrated and collaborative maritime complex within the Arab Academy provides students with a unique opportunity to have excellent Maritime Educational services.

The availability of training in the college, such as the simulator, the training vessel AIDA IV, Maritime Safety Centre and computer laboratories, as well as diesel engine and marine engineering workshops, enhances the applied aspects of education that the college offers. No wonder, the College was listed by the World Bank in 1995 as a recognized institution of maritime experts.

Education and training are administered in a sound, cultural, social, and sportive environment, in addition to ethics and morals, which are basic to the preparation of fine caliber graduates.



Vision

The College of Maritime Transport and Technology seeks global leadership in the field of maritime education and training by keeping pace with the development and smart digital transformation of education, technologies and modern methods to be a center of excellence providing scientific maritime programs and research that keep pace with the latest developments and continuous technological progress in the maritime transport industry.

Mission

Providing state-of-the-art levels of maritime education and training of international standards through the optimal use of educational and training resources for the new methods and smart digital transformation of the academy in order to support the maritime transport industry locally, regionally and internationally with qualified and trained maritime calibers that effectively contribute to improving the maritime transport system and all related activities while adhering to the highest international quality standards.

College of Maritime Transport & Technology

The College of Maritime Transport & Technology (CMTT) is the oldest and one of the most important pillars supporting the hierarchical structure of the Arab Academy for Science, Technology and Maritime Transport (AASTMT) since its establishment in 1972. The Academy is a regional university operated by the Arab League. The CMTT seeks to provide the maritime transport industry with qualified cadres. The college was listed by the World Bank in 1995 as a recognized institution of Maritime experts. Currently, (CMTT) serves as the technical arm and expertise house for the economic courts in Egypt, leveraging its qualified faculty members and experts in the field of maritime accident investigations.



Accreditations

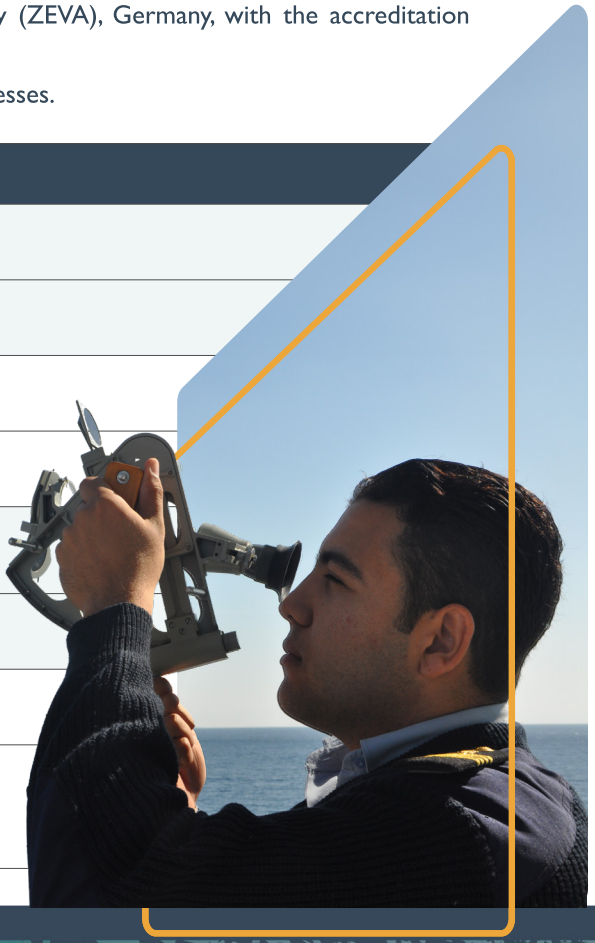
The Arab Academy for Science, Technology and Maritime Transport is a fully accredited member of the Association of Arab Universities and the International Association of Universities.

* The Academy's educational and maritime training systems, and certification systems, were accredited by the European Commission.

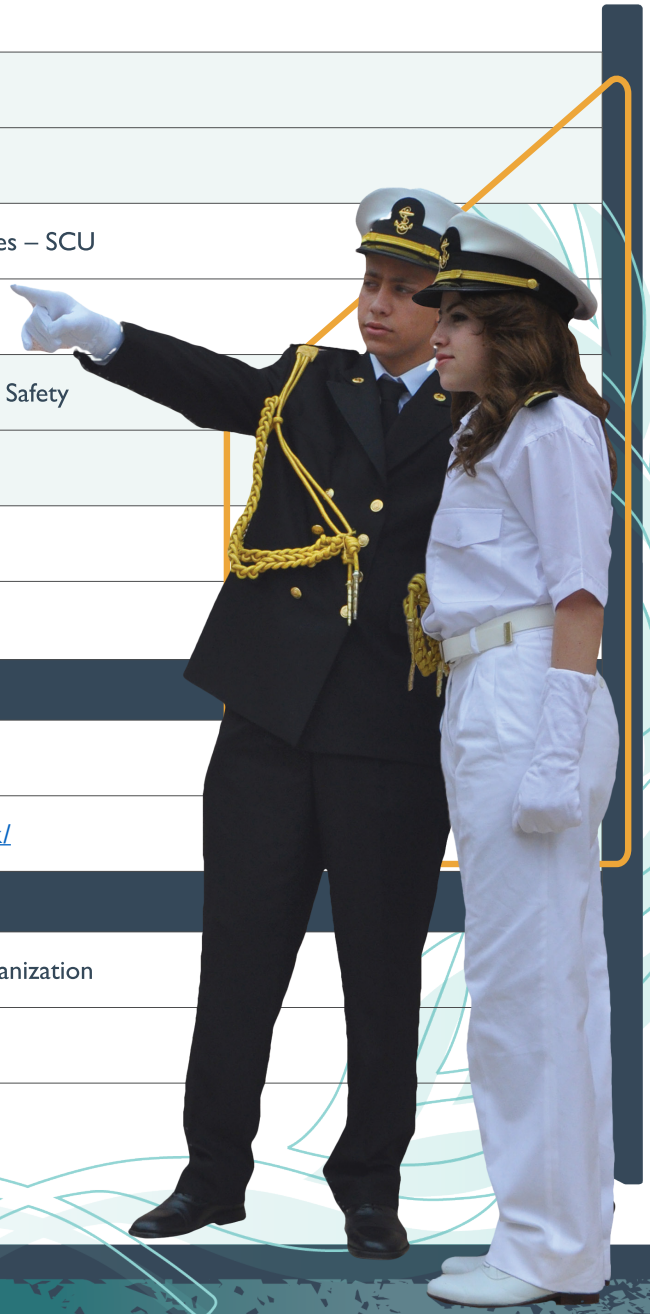
* The Bachelor's programs (Maritime Transport Technology and Marine Engineering Technology) offered by the CMTT have been accredited by the Central Evaluation and Accreditation Agency (ZEVA), Germany, with the accreditation renewed in July 2023 for six years.

* The Academy holds the ISO 9001:2008 certificate for its educational processes.

Bachelor Degree	
ZEvA Zentrale Evaluations- & Akkreditierungsagentur	ZEvA, Germany
	www.zeva.org
European Commission	European commission
	https://commission.europa.eu/
	Ministry of Higher Education (Greece)
	https://www.minedu.gov.gr/
سلطنة عمان وزارة التعليم العالي	Ministry of Higher Education (Oman)
	https://www.moheri.gov.om/?



	Ministry of Education (KSA)
	https://moe.gov.sa/
	Supreme Council of Universities – SCU
	www.scu.eg
	Egyptian Authority for Maritime Safety
	https://www.eams.gov.eg/
	ISO (9001 – 2015) DNV-GL
	https://www.dnv.com/
Dual Degree with the University of Plymouth	
	University of Plymouth
	https://www.plymouth.ac.uk/
Meteorology & Hydrographic Survey Programme	
	International Hydrographic Organization
	https://www.iho.int



Diving Programme	
ADCI	The Association of Diving Contractors International
	https://www.adc-int.org
INTERNATIONAL DIVING SCHOOLS ASSOCIATION	International Diving Schools Association
	https://www.idsaworldwide.org/
الهيئة المصرية لسلامة الملاحة البحرية	Egyptian Authority for Maritime Safety
	https://www.eams.gov.eg/
QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001	ISO 9001
	https://www.dnv.com
QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001	ISO 14001
	https://www.dnv.com
QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001	ISO 45001
	https://www.dnv.com



Program DESCRIPTION: Please visit the next url:

https://aast.edu/en/colleges/comt/alex/dept/programtemp.php?program

Successful models

***Congratulations to the student of the College of Maritime Transport, **Jamila Ali Saber** - has successfully completed the two-year Basic Maritime Studies phase and is currently undergoing the Guided Sea Training period for winning two silver medals in the World Universities Fin Swimming Championship held in Colombia.

She confirmed that her love for sports came from an early age when she started gymnastics, then she practiced swimming at the Suez Canal Authority Club. The first championship she achieved was a regional championship and she won first, second and third place thanks to the follow-up and supervision of Dr. Magdy Abu Aram, a professor at the Faculty of Physical Education, Port Said University.

She also participated in the Republic Championship, and in 2020 she participated in the Egypt Cup Championship, which was held in Sharm El-Sheikh, and at that time she achieved a record for 400 meters underwater. In 2021, she participated in the Republic Championship, and through it she was selected to participate in the Egypt Cup Championship, during which she achieved 4 records in the 200, 400, 800, 1500 meters Mono fins, based on which she was chosen as a key member of the Egyptian national team.



And her participation in the Italian Championship 2021, which was held in June, and she achieved third place in the 1500 meters, fourth place in the 800 metres, and sixth place in the 200, and within 10 days after the Italian Championship, she participated in the Russian Championship for adults from the age of 19 to 30 years, and it was held In the Russian city of Tomsk, during which 30 European countries participated, and thanks to God, she achieved third place in the 800 meters mono, fifth place in the 1500 metres, ninth place in the 200 metres, and tenth place in the 400 metres. Anna Arz-Anova, President of the International Federation of Diving and Rescue, honored her and handed her the bronze medal.

***A distinguished professional in the maritime industry, **Abla Eid** has made a notable mark with her exceptional academic achievements and hands-on experience. She graduated at the top of her class with a Bachelor's degree in Maritime safety and Environmental Protection, from the prestigious Arab Academy for Science, Technology and Maritime Transport.

Abla's expertise shines in her role as a 3rd Officer at BSM, where she demonstrates her skills and dedication to the maritime sector. Additionally, she shares her knowledge and passion for the field as a lecturer onboard AIDA IV, inspiring and guiding the next generation of maritime professionals.

Her commitment to excellence and passion for the industry make her a valuable asset to her organization and the maritime community.



Maritime Postgraduate Studies Institute





Vision

We aim to be a smart educational institution leaving a positive impact on the scientific society while taking the lead in providing the latest research knowledge in various areas of marine scientific research.

Mission

To develop the skills and empower a new generation of specialists and researchers able to meet the Maritime industry needs and technological advances, locally Regionally and internationally.

MPI Objectives

The main objectives of the Maritime Postgraduate Studies Institute are as follows:

- Providing specialized studies and researches for the enhancement and development of the maritime industry.
- Preparing qualified personnel who can effectively improve and enhance different marine activities.
- Ultimate utilization of the available data and research results in the enhancement and improvement of marine industry.
- Providing new solutions to problems encountered in the maritime industry.
- Assisting postgraduate researchers in enhancing their career opportunities.
- Supporting the Arab and African maritime communities to comply with the IMO requirements and implement new conventions and codes through the results coming out of the various scientific research held in the institute.



Maritime Postgraduate Studies Institute

Since its inception in 1972, as one of the Arab League affiliated organization, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) has been providing educational and training services in a wide range of disciplines, sciences and technologies related to the maritime sector.

In 2014,AASTMT decided to keep pace with industry trends and needs through establishing a new independent Maritime Postgraduate Studies Institute (MPI)

The main target of the Institute is to assist the Arab and African countries to satisfy their needs of highly qualified national individuals who can follow up and take part in the maritime industry development by providing unique teaching postgraduate programs concerning maritime transport technology and maritime safety, marine environment protection and maritime security, climate change and other programs.

MPI is accredited by The Central Evaluation and Accreditation Agency (**ZEVA**) Germany

MPI Programs (Master and Doctorate) are accredited by (**Supreme Council of Egyptian Universities**)

Programs:

Master of Sciences Program

MSc program consists of a total (48) Credit Hours spread over a minimum of four semesters. The program consists of total (4) core courses and (4) elective courses of (24) Credit Hours spread over a minimum of two semesters. In addition, students have to register (24) Credit Hours as a research Thesis (Two parts in a minimum one year).

- Admission Requirements for the MSc Program

The institute accepts the students holding:

- Bachelor's degree in Maritime Transport/Naval Science
- Bachelor's degree in Commerce, Business, Law, Engineering, International Transport and Logistics or Equivalents degree

The Candidates holding Bachelor's degree in Maritime Transport/Naval Science should pass fifteen credit hours (Five Courses) to join the MSc degree.

The Candidates shall prepare and post at least one Research Paper during MSc Program and to submit FTDC

The Institute can impose at maximum 3 courses as deficiency courses for some Bachelor's degrees.



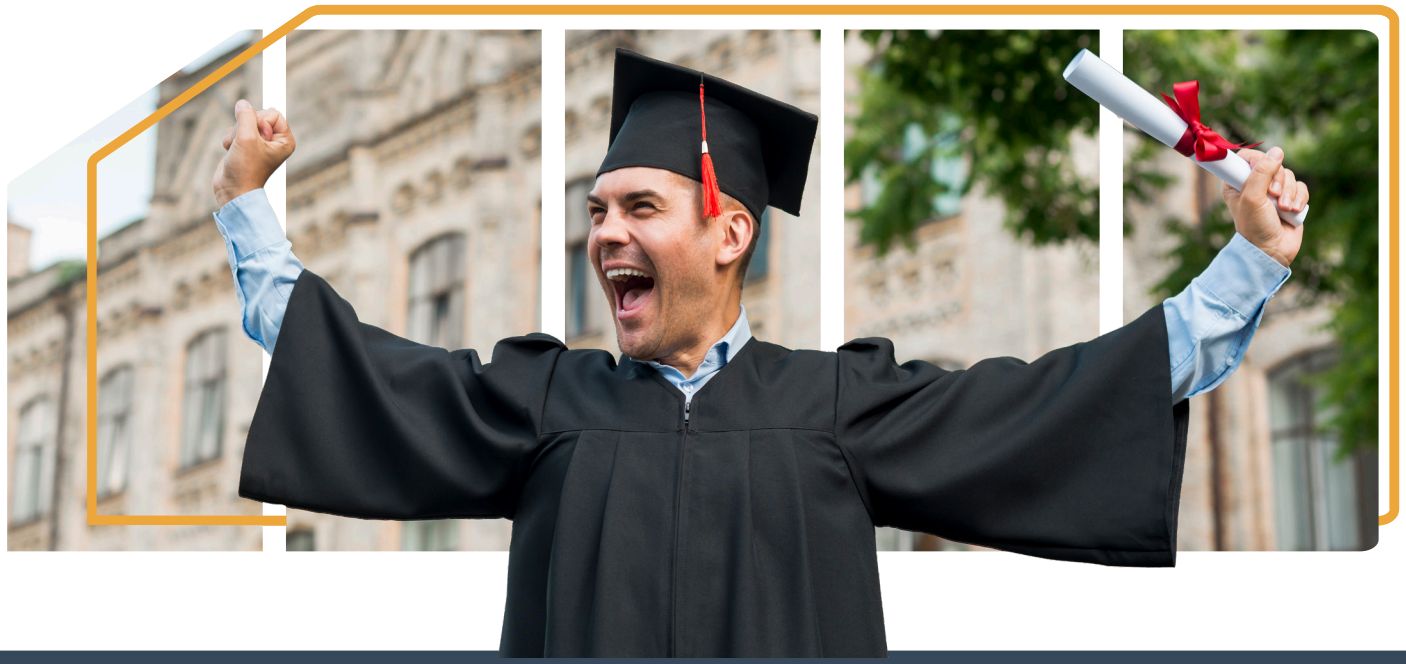
- Master of Science Degree in Euro-Mediterranean Smart Environmental and Climate Change Management SECCM

SECCM (Accredited by Supreme Council of Universities-Egypt) The program was established with the participation of four European countries (Italy - Greece - Lithuania - Slovenia) and Arab Academy for Science, Technology and Maritime Transport). The program is provided in Two Years. This program is unique and distinguished,, as it combines natural and applied sciences curricula to study climate changes, their causes and effects, and how to deal with and adapt to them. The program also works to qualify graduates with the knowledge and skills necessary to take on job jobs associated with local, regional and international efforts to deal with climate change, which is one of the greatest current challenges of modern societies.

Doctorate of Philosophy in Maritime Transport Program

PhD program consists of a total (60) Credit Hours spread over a minimum of six semesters. The program consists of total (4) core courses and (4) elective courses of (24) Credit Hours spread over a minimum of two semesters. In addition, students have to register (36) Credit Hours as a research dissertation spread over a minimum of four semesters.

All courses are delivered in English language and dissertation may be written in English or Arabic language.



- Admission Requirements for PhD`s Program



Applicants may have:

- MSc degree in Maritime Transport
- MSc degree in marine engineering
- MSc degree in International Transport and Logistics
- MSc degree in Smart Environmental and Climate Change Management (SECCM)
- MSc degree in Engineering, Law, Science, Business and Equivalents

For the Candidates holding MSc degree in Engineering, Law, Science, Business and Equivalents, they must pass the following 5 preparation courses with total 15 credit hours as follows:

- Fleet Operation
- Port Operation Management
- Maritime Safety Administration
- Introduction to Maritime Law
- Supply Chain and Logistic Management

In addition to the above, the student should submit TOEFL score not less than 500 or equivalent and FTDC before starting the Dissertation.

Candidates shall prepare and post at least two Research papers during Doctorate of Philosophy in Maritime Transport Program.



Institute of Maritime Upgrading Studies

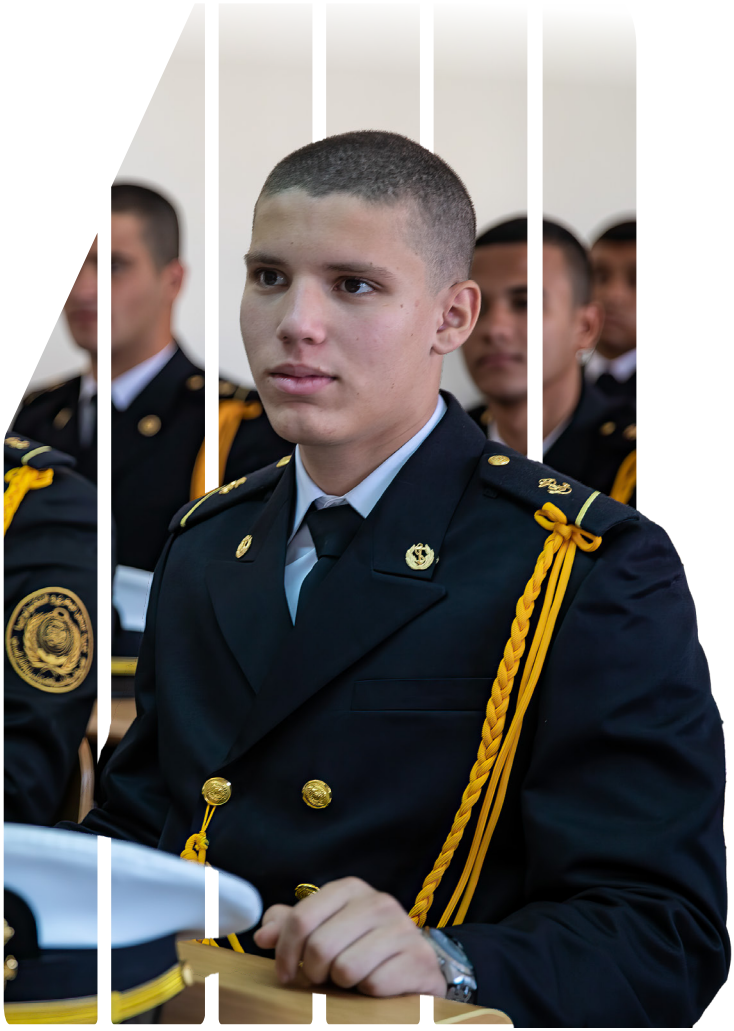


Message

Achieving sustainable development in the maritime community via providing distinguished graduates who are able to bring about tangible change and who are prepared and well-equipped through educational and training programs of international standards. Such advanced programs are delivered by highly-efficient professionals at developed centers that specialize in the field of scientific research, training, consultation as well as application of the highest international criteria of quality and governance.

IMUS is a leading and distinguished institute in the field of maritime education and training. Obtained the ISO-2015 quality certificate under the supervision of the Norwegian Classification Society (DNV) to apply internationally recognized maritime standards and studies techniques in the maritime and engineering field to keep pace with the dramatic developments in digital transformation technology in the maritime transport industry.

The IMUS uses theoretical studies, laboratories and marine engineering and electricity workshops, in addition to Simulation, to enhance candidates› mastery of all kinds of practical applications to provide the maritime transport industry, locally, regionally and internationally, with highly qualified cadres that contribute to the upgrading of maritime transport services in line with the Academy›s strategic vision.



Vision

The IMUS seeks to be a global leader in the field of maritime education and training by providing specialized and upgrading marine programs that keep pace with the latest developments and continuous technological progress through well trained and qualified cadres to contribute to the raising the level of the maritime industry.

Mission

Optimizing the use of various maritime facilities within the Academy to support the maritime transport industry locally, regionally, and internationally with maritime cadres to provide effective delivery of both education and training programs to meet the different needs of individuals, organizations, and institutions in the maritime industry

Institute of Maritime Upgrading Studies

Customers may choose our maritime institute for several reasons, including a comprehensive curriculum covering a wide range of maritime disciplines, experienced and knowledgeable faculty, state-of-the-art training facilities, Strong relationships with industry that facilitate access to jobs, flexible course schedules, and a track record of producing successful graduates. Additionally, we offer innovative teaching methods, competitive tuition rates, and opportunities for hands-on experience, these factors could further distinguish our institute as a preferred choice. The uniqueness of our maritime institute lies in our commitment to providing a holistic education experience. We differentiate ourselves through a combination of a diverse and specialized curriculum, cutting- edge simulation technologies for practical training, collaborations with industry leaders to ensure real-world relevance, a strong focus on career placement assistance, and a student-centric approach that prioritizes individual growth and development. Our commitment to innovation, quality education, and preparing students for the dynamic challenges of the maritime industry sets us apart. Most importantly it is approved by a credible source which is the Arab Academy for Science, technology, and Maritime Transport.



Programs :

Nautical Upgrading Studies

- Programs: Master:

The Master Program objectives are to enable officers to take full responsibility for ship safety, and security of passengers, crew, and cargo in accordance with international conventions and flag state requirements. These include safe navigation, cargo operations, engineering, emergency preparedness, and environmental protection. The program aims to enhance officers› knowledge of ship systems and instruments to enable effective decision-making in normal and emergency situations. It also provides knowledge in leadership, ship handling, cargo operations, engineering management, and crisis management to handle complex situations during voyages. The main goal is to develop the mandatory skills for officers to effectively manage all aspects of ship operations and fulfill their duties as ship masters.

- Chief Mate

The program objectives are to enable officers to assume responsibility for tasks delegated by the master related to ship safety, security of passengers, crew and cargo in accordance with conventions and flag state requirements. These include navigation, cargo operations, engineering and environmental protection. The course aims to enhance officers› knowledge of ship systems and instruments to enable effective decision making. It fosters a culture of safety through risk assessment and best practices while ensuring officers understand applicable maritime regulations. The main goal is to develop the skills for officers to effectively assist the master in managing all aspects of ship operations and fulfill their duties as chief mates.



- Second Mate and Third Mate

The program objective is to prepare the officers with the knowledge, skills, and experience of officers in charge of a navigational watch regarding all aspects of navigation, watchkeeping, operations, maintenance, and a Safety-focused approach to identifying hazards and preventing incidents. Full compliance with navigational, environmental, and cargo requirements is emphasized. Officers will be able to carry safely the watch keeping duties of an officer in charge of a navigational watch, both at sea and in port.

Engineering Upgrading Studies

- Programs: Chief Engineer

This program aims to meet the mandatory requirements related to knowledge, understanding and proficiency of STCW 78 as amended and flag state obligations. It is particularly meant to satisfy the specific requirements stated in the STCW Code. These involve providing program recipients with proficient knowledge and expertise regarding the management of all operations concerning propulsion plant machinery. Planning, scheduling operations, conducting surveillance as well as performance of assessment and maintenance procedures are all essential theoretical and practical knowledge provided by the introduced program content. Moreover, the program covers critical theoretical knowledge regarding the management operations of electrical and electronic control equipment, and it also gets the trainees familiar with furnished practical expertise regarding managing troubleshooting and maintenance of electrical and electronic equipment and systems, so that their operating conditions may be maintained and enhanced.

- Second Engineer

The second engineer program is basically intended to satisfy the obligatory prerequisites related to knowledge, understanding and proficiency of the STCW 78 as amended and flag state requirements. It is particularly meant to satisfy the specific requirements stated in the STCW Code. These comprise introducing program participants to the fundamental knowledge and basics intrinsic to the management of all operations concerning propulsion plant machinery. Planning, scheduling of operations, carrying out surveillance procedures as well as performance of assessment and maintenance procedures are among the primary theoretical and practical knowledge that can be acquired via the presented program academic content. More important still, the program provides theoretical knowledge for the management operations of electrical and electronic control equipment. It also gets the trainees well-equipped with considerable practical expertise in managing troubleshooting and maintenance of electrical and electronic equipment, so that its operating condition may be maintained and enhanced.

- Third Engineer

The third engineer program is essentially intended to provide trainees with approved in-service training, with a view to meeting the mandatory minimum requirements for knowledge, understanding, and proficiency of STCW 78 as amended and flag state requirements. The program curricula are particularly meant to satisfy the specific requirements stated in STCW Code. The program is designed to fulfill the level of competence required to operate marine propulsion plants and it also provides opportunities for learners to develop their knowledge, skills, and attitudes to improve their effectiveness. Furthermore, participants are expected to acquire on-the-job seagoing experience. Besides, the program is intended to provide trainees with sufficient knowledge and practical expertise regarding keeping a safe engineering watch and operating all main and auxiliary machinery as well as associated control systems. Moreover, it is focused on introducing participants to the necessary safety requirements intrinsic to the working of electrical tasks, electronics as well as automatic control principles. Last but not least, the program prepares trainees to practically apply and comply with the requirements related to pollution prevention and to identify the primary basics and criteria involved and observed in merchant ship construction and naval architecture processes.

ETO

The introduced ETO program is intended to provide the trainees with approved in-service training, aiming at meeting the mandatory minimum requirements for knowledge, understanding, and proficiency of STCW 78 as amended and flag state requirements. The program content is particularly meant to satisfy the specific requirements stated in STCW Code. Comprising several three functions at the operational level, the program will provide the trainees with sufficient competency required for carrying out technical officer duties both safely and efficiently. By the end of the introduced program, trainees will be fully aware of the operations related to the monitoring of electrical, electronic as well as the control systems. Further, participants will be familiar with the essential principles and techniques concerning the

monitoring and operation of automatic control systems, auxiliary machinery as well as generators and distribution systems. In addition, trainees will acquire sufficient proficiency regarding the operation and maintenance of operators, distribution systems, and power systems exceeding 1,000 volts. Additionally, they will be provided with intrinsic knowledge and practical expertise related to the operation of computers and computer networks onboard ships. Finally, they will acquire sufficient skills in utilizing internal communication systems both efficiently and effectively.



Training Programs:

Maritime courses	
2TR-011	Marine Radar and Automatic Radar Plotting
2TR-0992	Refreshment course (management level) Nautical Department
2TR-0993	(Management Level) Refreshment Course Engineering Department
2TR-0994	(Operational Level) Refreshment Course Engineering Department
2TR-0996	Intensive 3rd Engineer
2TR997	Intensive Electro-Technical Officer
2TR-01003	Intensive 2nd Engineer
2TR-01005	Officer of the Watch on Board Fishing Vessels (Marines)
2TR-01006	Intensive Third Mate
2TR-01007	Intensive Second Mate
2TR-01008	Intensive Master
2TR-01012	Intensive 2nd Engineer Fishing Vessels
2TR-01013	COC Course Attendance Completion
2TR-01022	Assistant Watch Engineer
2TR-01024	Intensive Chief Engineer
2TR-1025	Radar & ARPA Simulator and Search & Rescue
2TR-1029	Intensive Chief Mate
2TR-01031	Refreshment Course (Operational Level) Nautical Department
2TR-1032	Refreshment Course (Operational Level) Engineering Department
2TR-1036	Second Engineer (A) Intensive
2TR1040	Safe Operation & Management of Petroleum Terminals
2TR1041	Operation & Maintenance of Marine Tugs
2TR1042	Marine Communications
2TR1043	Maintenance of Marine Mechanical Equipment
2TR1049	Nautical Charts Familiarization

Specialized Maritime Courses:	
2TR-015	Communications
2TR-623	Marine Surveying (Condition Survey «Hull & Machinery»)
2TR-0786	Basic Training
2TR-984	Engineering and Marine Maintenance Management
2TR-999	Handling of Coal in Solid Bulk Cargo Form
2TR-1002	Preparation in Marine Engineering Knowledge
2TR-1011	Designated Person Ashore course
2TR-1017	Marine Diesel Engines Maintenance
2TR-1018	Assistant Electric Watch Engineer
2TR-1019	Marine Survey Familiarization Course
2TR-1020	Tanker Chartering Contracts



2TR-1021	Maintenance of Marine Electric Machines
2TR-1023	Qualifying of Maritime Companies Managers
2TR-1026	Cargo Survey
2TR-1030	Handling of Dangerous Goods and Hazardous Substance in Package Form (HAZMAT)
2TR-1033	Marine Radar- Plotting
2TR-1034	Marine Radar- Theoretical
2TR-1035	Hazardous Materials (HAZMAT PROGRAM) As Per (49) CFR (Part 172.704) of The Federal Regulations (USA)
2TR-1038	Tug Master Operation
2TR-1044	International Statutory & Classification Societies Rules
2TR-1045	Ship's Dry Docking and Repair
2TR-1046	Vessel Services
2TR-1047	Marine Telecommunication Systems
2TR-1048	Basic knowledge of Oil and Gas Port Operations
2TR1050	Qualifying of Port Captain (Level 1)
2TR1051	Qualifying of Port Engineer (Level 1)
2TR1052	Qualifying of Port Captain (Level 2)
2TR1053	Qualifying of Port Captain (Level 3)
2TR1056	Qualifying
2TR1055	Qualifying of Port Engineer (Level 3)
2TR1058	Ship Watertight Integrity and Damage Control
2TR1059	Hull Inspection and Repair

Specialized Maritime Courses:	
2TR1060	Hull Structure
2TR1061	White Fleet Operational Officer
2TR1062	Control System Training for Chilled Water Plants on Ships
2TR1063	Handling of Asbestos Training in Accordance with IMO MSC/Circ. 1045



Maritime Safety Institute





Message

Empowering maritime professionals with world-class safety training, knowledge, and competencies to protect lives, property, and the marine environment and sustainable human capital.

Vision

To be a globally recognized center of excellence in maritime safety education and training, pioneering innovation and sustainable practices that enhance the performance and resilience of the maritime and offshore industries across the Arab region and beyond.

Mission

To deliver world-class maritime safety education and training programs in full compliance with (IMO) conventions—particularly the STCW Convention—as well as OPITO standards; to develop competent, safety-conscious professionals equipped with advanced technical and leadership skills; and to actively support the continuous improvement of maritime and offshore operations through applied research, consultancy, and collaboration with global partners.Maritime Safety Institute

The Maritime Safety Institute stands out as the region's premier institution dedicated to maritime safety training for the offshore, oil, and gas sectors because:



Maritime Safety Institute

- It operates under AASTMT, a specialized organization of the League of Arab States renowned for maritime excellence and international recognition.
- It offers accredited safety courses including STCW mandatory courses, OPITO-approved offshore safety programs, and advanced simulation-based training.
- It complies with global quality and safety management systems such as ISO 9001 and ISO 45001, ensuring continuous improvement and high training standards.
- It integrates innovation and digitalization across maritime education and training, supported by AASTMT's strategic plan for smart learning transformation.
- Advanced Facilities: State-of-the-art simulators, safety training pools, and firefighting grounds meeting international standards.
- Professional Faculty: Instructors with seagoing experience and international qualifications.





Accreditations

- OPITO Approved Offshore Training Center for safety and survival programs.
- DNV Certified for training management and safety processes under ISO 9001:2008 and ISO 45001:2015.
- AASTMT recognition under international frameworks, including STCW (1978 as amended) and European Commission accreditation for maritime education and certification systems.

IMO INTERNATIONAL MARITIME ORGANIZATION

OPITO THE OIL & GAS ACADEMY

DNV

IMCA®

INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS IADC MEMBER

INTERNATIONAL ASSOCIATION FOR SAFETY AND SURVIVAL TRAINING IASST

USMSA

Survival Systems

AKILA

Dräger

Successful models

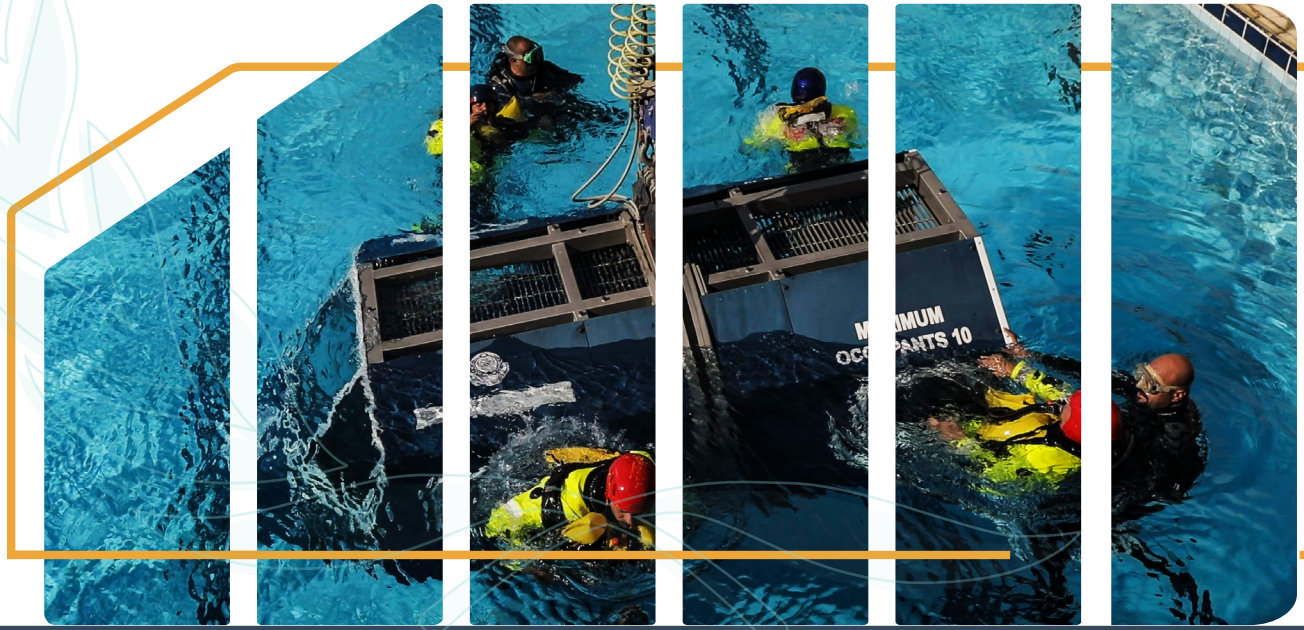
- Sustainability in Training: Incorporating environmental awareness, emergency preparedness, and green shipping practices into all safety programs.
- Integration of OPITO-approved training programs that align with global offshore safety benchmarks, enhancing workforce readiness for the oil and gas industry.

Courses

STCW Courses

No	Course Code	Course Title
1	MSIM 101	Elementary First Aid*
2	MSIM 102	Proficiency in Personal Survival Techniques*
3	MSIM 103	Personal Safety and Social Responsibilities*
4	MSIM 104	Fire Prevention and Fire Fighting*
5	MSIM 105	Advanced Personal survival Techniques and Search Rescue*
6	MSIM 201	Medical First Aid
7	MSIM 201R	Refresher Course in Medical First Aid
8	MSIM 202	Medical Care
9	MSIM 202R	Refresher Course in Medical Care
10	MSIM 203	Proficiency in Crisis Management and Human Behavior Training Including Passenger Safety, Cargo Safety and Hull Integrity Training*
11	MSIM 204	Crowd Management, Emergency Familiarization for all Personnel and Safety Training for Personnel Providing Direct Services to Passengers in Passenger Spaces. *

12	MSIM 205	Proficiency in Survival Craft and Rescue Boat Other Than Fast Rescue Boat
13	MSIM 205R	Refresher Course in Proficiency in Survival Craft and Rescue Boat Other Than Fast Rescue Boat
14	MSIM 206	Advanced Training in Fire Fighting
15	MSIM 206R	Refresher Course in Advanced Training in Fire Fighting
16	MSIM 301	Proficiency in Fast Rescue Boat
17	MSIM 302	Advanced Communication



Offshore Emergency Response Courses

No	Course Code	Course Title
1	OPITO 5700	Basic Offshore Safety Induction Emergency Training with Emergency Breathing System (BOSIET-EBS) - OPITO Accredited
2	OPITO 5858	Further Offshore Emergency Training with Emergency Breathing System (FOET-EBS) - OPITO Accredited
3	OPITO 5095	Helicopter Underwater Escape Training with Emergency Breathing System (HUET-EBS) - OPITO Accredited
4	OPITO 5501	Tropical Basic Offshore Safety Induction Emergency Training (T-BOSIET) - OPITO Accredited
5	OPITO 5614	Tropical Further Offshore Emergency Training (T-FOET) - OPITO Accredited
6	OPITO 5195	Tropical Helicopter Underwater Escape Training (T-HUET) - OPITO Accredited
7	OPITO 5750	Basic Offshore Safety Induction and Emergency Training with Compressed Air Emergency Breathing System (BOSIET-CAEBS) - OPITO Accredited
8	OPITO 5850	Further Offshore Emergency Training (FOET) with Compressed Air Emergency Breathing System (FOET CAEBS) - OPITO Accredited
9	OPITO 5295	Helicopter Underwater Escape Training (HUET) with Compressed Air Emergency Breathing System (HUET CAEBS) - OPITO Accredited
10	OPITO 5903	Shallow Water Compressed Air Emergency Breathing System Initial Deployment Training (SW-CAEBS) - OPITO Accredited
11	OPITO 5902	Dry Compressed Air Emergency Breathing System (CA-EBS) Initial Deployment Training (DRY CAEBS) - OPITO Accredited
12	OPITO 9014	Basic H2s Training - OPITO Accredited
13	OPITO 7228	Major Emergency Management Initial Response Training (MEMIR) - OPITO Accredited
14	OPITO 7025	Offshore Installation Manager Controlling Emergencies (OIM CE) - OPITO Accredited
15	MSIO 001S	Helideck Operations Initial Training (HOIT) - Approved by Shell International



16	MSIO 002S	Helideck Emergency Response Team Member (HERTM) - Approved by Shell International
17	MSIO 003S	Helideck Emergency Response Team Leader (HERTL) - Approved by Shell International
18	MSIO 401	Offshore Personal Survival Technique and Search Rescue
19	MSIO 402	Offshore Basic Marine Fire Fighting
20	MSIO 403	Offshore Personal Safety and Social Responsibilities
21	MSIO 406	Offshore Medical First Aid
22	MSIO 501	Offshore Advanced Fire Fighting
23	MSIO 502	Offshore Advanced Medical First Aid
24	MSIO 503	Offshore Proficiency in survival Craft and Rescue Boats other Than Fast Rescue Boats
25	MSIO 601	Offshore Helicopter Landing Officer
26	MSIO 602	Offshore Lifeboat Coxswain
27	MSIO 610	Fire Emergency Response Heli-Deck
28	MSIO 611	Offshore Fire Team Member
29	MSIO 613	Offshore Heli-Deck Assistant
30	MSIO 615	Basic Offshore HLO/Assistant & Emergency Helideck Training
31	MSIO 616	Offshore Fire Team Leader
32	MSIO 621	Offshore Fast Rescue Boat/Craft

Safety Management Courses

No	Course Code	Course Title
1	MSIOC 802	Shipboard Safety Officer
2	MSIOC 803	Accidents Investigation Procedure
3	MSIOC 803R	Refresher course in Accidents Investigation Procedure
4	MSIOC 806	Risk Management
5	MSIOC 806R	Refresher course in Risk Management
6	MSIOC 818	ISM-Level 1 (ISM Code Familiarization)
7	MSIOC 819	ISM-Level 2 (International Safety Management – Documentation & Implementation)





Specialized Maritime Courses

No.	Course Code	Course Title
1	MSIOC 801	On Scene Commander
2	MSIOC 804	Industrial Fire Fighting
3	MSIOC 904	Implementation of International Maritime Goods Code on Board Ships
4	MSIOC 905	Implementation of International Maritime Dangerous Goods Code in port Area
5	MSIOC 908	Preventing and Fighting of Fire in Concrete Installations

CBT - Offshore Emergency Response Courses

No	Course Code	Course Title
1	OPITO 5703	Basic Offshore Safety Induction and Emergency Training with Emergency Breathing System Digital Delivery (BOSIET EBS DD) -OPITO Approved
2	OPITO 5507	Tropical Basic Offshore Safety Induction & Emergency Training Digital Delivery (T-BOSIET-DD) - OPITO Approved
3	OPITO 5752	Basic Offshore Safety Induction and Emergency Training with Compressed Air Emergency Breathing System – (BOSIET CAEBS DD) - OPITO Approved
4	OPITO 5312	International Minimum Industry Safety Training (IMIST) - OPITO Approved
5	OPITO 9240	Authorized Gas Tester (AGT) - OPITO Approved
6	SAA 44	Working at Height - Mintra Approved
7	SSA 25	Enclosed Space Entry - Mintra Approved

Sea Traning Institute





Message

We do not just train seafarers; we forge maritime leaders. Our message is one of uncompromising excellence and global readiness. We bridge the critical gap between academic theory and the demanding reality of the high seas, equipping every deck and engineering cadet with the confidence, discipline, and advanced technical mastery required to thrive. Our dedication is to transforming aspiring cadets into skilled professionals and disciplined officers who will command the future of the global maritime industry.

Vision

To excel as one of the best sea training institutes locally and regionally and to uphold internationally recognized course of studies with an advanced academic rank.

To offer the highest quality educational programs, training, research, services and to play a stellar part in all maritime transportation fields, as a foremost sea training institute in the Arab world and Africa.

Mission

To provide deck and engineering cadets with an unmatched opportunity at supervised approved seagoing service in accordance with the highest international standards as set forth by STCW and international standards of Maritime Education and Training (MET). Thus, build up the cadet with the knowledge, skills and attitudes required for a challenging and highly rewarding career at sea.



Sea Traning Institute

The Sea Training Institute (STI) is the essential launchpad for an elite maritime career, built upon a foundation of nearly 50 years of pioneering experience as the first institute of its kind in the MENA region. We don't just teach theory; we practice "learning by doing", providing mandatory, supervised practical experience aboard our dedicated vessel, the AIDA IV, which actively develops critical officer characteristics like leadership, responsibility, and self-confidence. Our quality is globally assured: we are fully compliant with the STCW 78 Convention, as amended, and hold international certifications, including ISO 9001:2015 and several accreditations. By focusing on continual improvement and incorporating environmental responsibility, we ensure you graduate as a highly skilled professional, ready to lead the sustainable future of the global maritime industry.





Courses

The STCW Convention 1978 has been amended by the 2010 Manila Amendments and contains new training requirements.

All of our courses are STCW 2010 compliant.

Engine courses (guided training)

5th term courses

1- Leadership V - D305 - P305

This course aims at getting the cadet acquainted with the general rules of the art of leadership to enable the smooth and efficient running of work on commercial ships.

2- Marine Control System - EE 310

According to STCW 78 as amendment (Table A-III/1) and IMO model course 7.04.

3- Marine Electrical Engineering - EE320

Throughout this course, Cadets will gain practical implementation and experience for operation and maintenance of different electrical machines and electronic circuits on board the ship according to STCW 78 as amended and IMO model course 7.04.

4- Marine Engineering II - MM 312

Throughout this course, cadets will gain practical knowledge and experience for operation and maintenance of deferent machines and systems in the engine room.

According to STCW 78 as amended (Table A-III/1) and IMO model course 7.04.

5- Watch Keeping Duties - MM313

According to STCW 78 as amendment Ch.VIII, Section A-VIII/1,A-VIII/2

And B-VIII/2 and IMO model course 7.04.

6- Marine Diesel Engines (2) - MM322

According to STCW 78 as amended and IMO model course 7.04.

7- Naval Architecture & Ship Construction II - MM342

According to STCW 78 as amended (Table A-III/1) and IMO model course 7.04 .

The student should know the importance of studying ship construction and the usage of these knowledge for example: writing damage reports with structure elements also for writing structure repairs job list for dry docking.

8- Marine Safety - ND 370

According to STCW 78 as amended (Table A-III/1) and IMO model course 1.19 &1.20

Throughout this course cadets gain practical knowledge and experience for safety aboard ships and the observation and use of safe working practices at all times either ship is in port or at sea.





Deck (Navigation) courses (Guided Training)

5th term courses

1-Leadership V - D305 - P305

This course aims at getting the cadet acquainted with the general rules of the art of leadership to enable the smooth and efficient running of work on commercial ships.

2- Practical Seamanship - TI 316

This course aims to meet the mandatory minimum requirements for knowledge, understanding and proficiency of seamanship techniques in accordance with the new amended of STCW 78 and IMO model course (Officer in charge of a navigational watch).

3- Practical Ship Operation & Person Care On board - TI 317

The course aim to encourage trainees to suggest the actions they would take in response to the various emergencies, to consider pollution-prevention requirements maintain the sea-worthiness of the ship prevent, control and fight fires operate life-saving appliances and to provide medical first aid on board ship.

4- Practical Navigation - TI 336

The course aims to enable the cadets to distinguish between types of fixing methods, bearings, types of ship's tracks and courses in addition to use the celestial bodies to determine ship position and compasses error beside understanding the methods of fixing using celestial sphere According to STCW 1978 as amended in addition to IMO model course 7.03.

5- Operative Cargo Handling & Stowage - TI 352

This course aims to meet the mandatory minimum requirements for knowledge understanding and proficiency in table A-11/1 of STCW 78, as amended (Manila 2010) for the function of cargo handling and stowage at the operational level. This course based on IMO Model Course 7.03.

6- Operative Electronic Navigation Systems - TI 364

The course aims to enable the cadets to apply different methods to calculate elevation and use the magnetic gyro compass, in addition, present the different types, operations of position fixing systems melding land baser action navigation and space – based radio navigation systems, beside the correct use of radar to change ship courses, speed and fixing the ship position according to STCW 78 as amended, in addition to IMO Model Course 7.03.

6th term courses

1- Leadership VI- D306

This course aims at getting the cadet acquainted with the general rules of the art of leadership to enable the smooth and efficient running of work on commercial ships.

2- Applied Ship Maneuvering and Emergency Procedures - TI 318

The aim of this course is to keep the trainee able to demonstrate sense of responsibility, independence and awareness of the means of cooperation with others as part of one of the emergency teams on board.

Provide the trainee with the basic principles of ship handling, maneuvering,

.The requirements of the STCW as amended are covered by IMO model course 7.03.

3- Practical Safety & Environmental Protection - TI 319

The aim of this course is to keep the trainee able to demonstrate sense of responsibility, independence and awareness of the means of cooperation with others as part of one of the emergency teams on board.

.The requirements of the STCW Convention are covered by IMO model course.

4- Practical Passage Plan - TI 337

The course aims to enable the cadet should be competent to carry out voyage planning (Coastal and Ocean), the use of Admiralty Publication in voyage planning, Weather routing and the performance standards for electronic charts According to STCW 1978 as amended in addition to IMO model course 7.03.

5- Applied Cargo Handling & Securing - TI 353

The course aims to enable the student to monitor the loading, stowage, securing and unloading of cargoes and their care during the voyage and to inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks according to STCW 78 as amended, in addition to IMO Model Course 7.03.

6- Practical Electronic Navigational Aids - TI 365

The course aims to enable the student to meet the mandatory requirements for knowledge, understanding and proficiency in Table A-II/1 of STCW 78 as amended in addition to IMO Model Course 7.03.





Accreditations

Supreme Council of Universities - Egypt

The Central Evaluation and accreditation Agency (ZEVA) – Germany

The European Commission - European Maritime Safety Agency (EMSA)

Ministry of Education, Research And Religious Affairs – Greece

Ministry of Education - Saudi Arabia

Ministry of Education of Oman

The ISO 9001:2015 (Certification)

Successful models

The AIDA IV Integrated Platform is our proven model. We reject the divide between academic theory and practical practice by making our dedicated vessel the training environment. Cadets use the ship's cutting-edge electronic bridge and propulsion systems, including live virtual AIS, to gain technical competency during mandatory, supervised sea service. An integrated, "learning by doing" strategy is essential to developing globally prepared officers with real-world leadership and self-confidence.



Regional Maritime Security Institute





Message

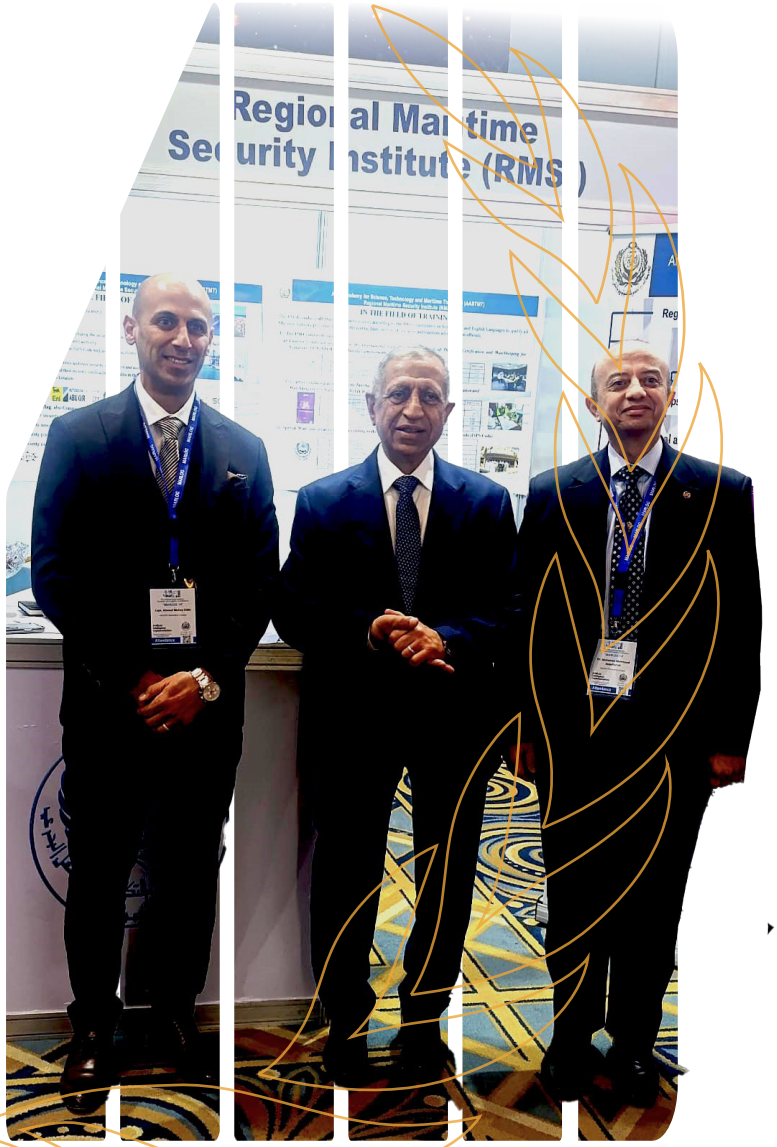
To disseminate the concept of maritime security and its international requirements, while striving for performance excellence that meets the expectations of clients and all stakeholders associated with the Regional Maritime Security Institute (RMSI).

Vision

The RMSI is looking to be a distinguished Maritime Security Center for providing counseling, training and research in Egypt, Africa, and Arab Countries.

Mission

The RMSI qualifies all personnel in the Maritime transport industry in the field of services and all other activities concerning maritime security to meet all requirements nationally, regionally, and internationally using updated technology to achieve international accreditations and standards.



Regional Maritime Security Institute

The RMSI is one of the pillars of the Maritime Excellence Sector at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) Specialized in all consultancy, training, and research activities related to maritime security while being assigned by the Designated Authority of the Arab Republic of Egypt as a Recognized Security Organization (RSO).





Courses

- The IMO validated courses:
  - Courses conducted according to the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978 (STCW 78) & Manilla's amendments 2010

No.	Course Name	Duration	AASTMT Code	IMO Code
1	Proficiency for Ship Security Officer (Proficiency SSO(	3 Days - 18 Hrs.	2TP-0942	3.19
2	Proficiency of Security Awareness Training for all Seafarers	1 Day - 6 Hrs.	2TP-0929	3.27
3	Proficiency of Security Awareness Training for Seafarers with Designated Security Duties	2 Days - 12 Hrs.	2TP-0928	3.26

  - Courses conducted according to the international ships and port facilities security code (ISPS Code)

No.	Course Name	Duration	AASTMT Code	IMO Code
1	Port Facility Security Officer (PFSO)	3 Days - 18 Hrs.	2TP-0933	3.21
2	Security Awareness Training for all Port Facility Personnel	1 Day - 6 Hrs.	2TP-0930	3.25
3	Security Awareness Training for Port Facility Personnel with Designated Security Duties	2 Days - 12 Hrs.	2TP-0931	3.24
4	Company Security Officer (CSO)	3 Days - 18 Hrs.	2TP-0934	3.20
5	Actions to be taken to prevent acts of Piracy and Armed Robbery	1 Day - 6 Hrs.	2T P-0932	3.23

- Special Maritime security courses according to the international ships and port facilities security code (ISPS Code):

No.	Course Name	Duration	AASTMT Code
1	Security Risk Assessment	2 Days - 12 Hrs.	2TP-0785
2	Maritime Security Auditor – (Advanced Course)	5 Days - 30 Hrs.	2TP-0762
3	Train - of the - Trainer in Maritime Security	5 Days - 30 Hrs.	2TP-0943
4	Cyber Security Awareness for Port Facilities Personnel	2 Days - 12 Hrs.	2TP944
5	Cyber Security Awareness for All Seafarers	2 Days - 12 Hrs.	2TP945
6	Professional Diploma in Maritime Security	13 week - 390 Hrs.	2TP946



Accreditations

The RMSI has been approved and accredited as a recognized security organization (RSO) by the Egyptian Maritime Transport and logistics Sector, and the Egyptian Authority for Maritime Safety in Egypt, as well as in Saudi Arabia and Lebanon



Integrated Simulators Complex





MESSAGE

Integrated Simulators Complex (ISC) is one of the most significant entities of the Arab Academy for Science, Technology and Maritime Transport. It established since 1996 and strives to be one of the momentous bodies in simulation field.

ISC over these years has recognized and accepted the challenge of being technically up-to-date, so it succeeded to earn the latest line of technology in Simulation field. These simulators are considered to be the sate-of-art in simulation technology that strongly supported the ISC to be a unique integrated simulators complex in the region.

The ISC strives continuously to maintain its leadership role in providing bi-lingual simulation training to multinational professionals within the Maritime and oil industries, it also plays a major role in conducting various studies and consultations based on simulation techniques for maritime quays, terminals and ports. In addition to the consultancy services that provided to those quays which are still at their under-construction phase.

Moreover, ISC is providing different consultations and studies to support the development and improvement of many Arab and African Countries in such fields. These services are provided through academic highly qualified competent staff who continuously seeks to achieve higher levels of performance.

We are proud of our history and that we have been delivering training to seafarers for over 29 years. Our heritage and values have steered generations of seafarers into successful careers.



Vision

"Become one of the leading worldwide accredited bodies in the simulation field", driven by the advanced latest technology, teamwork, continuous improvement and innovation".

Mission

By utilizing the top-of-the-line simulation technology, ISC provides up-to-date training and consultation services in the fields of: Marine, Environment Protection and Crisis Management (including Oil Spills), Global Maritime Distress and Safety Systems (GMDSS), and Liquefied Natural Gas and Petrochemicals.

SCOPE

"Provision of simulation-based Learning, Training and Consultation services based on IMO Instruments and STCW Convention and Industry Standard.

Integrated Simulators Complex

The Integrated Simulators Complex (ISC) is committed to maintain its leadership role in providing bi-lingual simulation training and learning to multinational professionals and students within the marine and oil industries in the Middle East Region and rest of the world. It also provides consultation services to various companies in the fields of Marine, Oil Spill, Global Maritime Distress System, and Liquefied Natural Gas.

By utilizing the top line simulation technology, and near-perfect communication and understanding between the five ISC integrated systems, ISC provides up-to-date training instructions through professional Ph.D. and Masters holders who coordinate and instruct students of both operator and management level courses using the highest standards of service quality; to help them attain the required certification and training as directed by the responsible registration and accreditation agencies.

In order to achieve outstanding levels of performance and satisfy customers; ISC is actively concerned with the following:

- Rapid response to customer requirements.
- Achieve outstanding levels of performance during education and training processes.
- Complying with the STCW 78 convention as amended.
- Complying with all laws and governmental regulations related to ISC activities.
- Constantly quest for improvement and continuous development.
- Achieving clear awareness regarding employees' duties concerning the quality of service provided.
- Comprehensive employees' awareness and knowledge about ISC quality policy.
- A clear understanding of quality policy by all ISC interested parties.



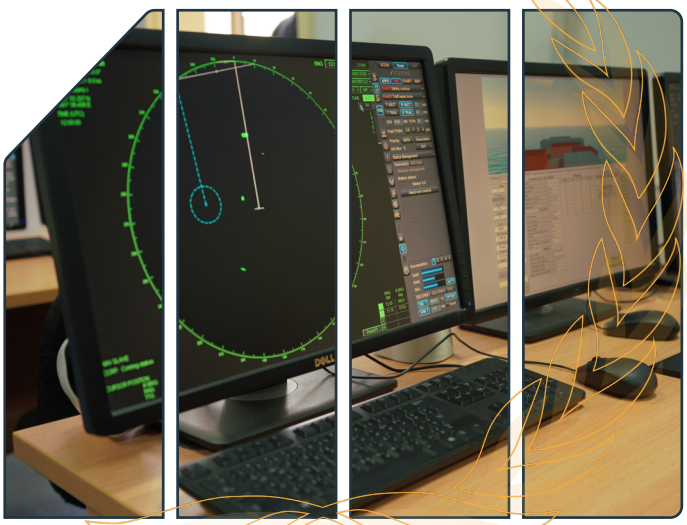
To maintain this outstanding performance, ISC carries out the creation and implication of Quality Management System, which is compatible with the requirements of international standards ISO 9001:2015, in addition to the requirements of the STCW 78 and its amendments and related Egyptian Ministerial Decrees.

ISC Aims to:

- Building capacity in Maritime domains
- developing knowledge and skills
- Transfer advanced technology
- Provide service to Arab and African Countries for their economic and sustainable development goals.

The Integrated Simulator Complex includes 5 major systems under 2 Branches:

- **A-Integrated Simulators Complex (ISC – Alexandria):**
  - Marine Simulators Systems.
  - Offshore and Dynamic Positioning Simulators Systems.
  - Natural Gas and Petrochemicals Systems.
  - Environmental Protection and Crisis Management Systems.
  - Communication and Computing Systems.
- **B-Marine & Offshore Training Center (MOTC – Cairo):**
  - Marine Simulators Systems.
  - Offshore and Dynamic Positioning Simulators Systems.
  - Natural Gas and Petrochemicals Systems.



Facilities

1-The Marine Simulators Systems Comprises:

- Full Mission Ship Handling Simulator
- Tug "A" Boat Simulator
- Tug "B" Boat Simulator
- Vessel Traffic Service Simulator (VTS)
- ECDIS Lab
- Mini Bridge Simulators
- Instructor Station Room
- Research and Consultancy



2-Offshore Dynamic Positioning Simulators Systems

- Dynamic Positioning Full Mission Offshore Vessel Simulator "Class A"
- Dynamic Positioning Simulator "Class C"
- Feedback Classroom (Evaluation Room)
- Instructor Station Room

3-Natural Gas and Petrochemicals Simulator System

The Liquid Cargo Handling simulator is designed to train, assess and certify crew members of liquid cargo tankers, gas carriers and terminals, as well as other staff responsible for the safe cargo handling and the operation of auxiliary equipment.

The Simulator presently consists of twelve interactive color graphics terminal for students use, together with a set of instructor's terminal. The Simulator Facility uses models for "Vessels" and "Teminal".

4-The Environment Protection and Crisis Management

- Environmental Protection and Crisis Management Simulator
- Chemical Analyses Laboratory
- Oil Spill Combating Training Center
- Geospatial Information Technology Unit



5-The Communication and Computing Systems Department (CCSD)

New two GMDSS simulators of TGS 5000 Ver. 8.5 manufactured by TRANSAS (Currently Wärtsilä), they are integrated and connected to each other through Local Area Network (LAN). Each simulator station could work in stand-alone mode and/or in network mode.

- The Instructor Station
- The Student Stations
- The Mimic Station (TGS 6000 Console)
- The SAILOR 6103 Multi Alarm Panel

6-Marine and Offshore Training Center (MOTC) (Cairo Branch)

- Full Mission "Class A" Ship Handling Simulator
- Full Mission "Class A" Offshore Operation Simulator
- Dynamic Positioning Simulator "Class B" with 120 Degrees of visibility
- Dynamic Positioning Simulator "Class C"
- Multi-Function Desktop Simulator



Programs

1-The Marine Simulators Systems:

Marine simulators represent critical elements for the prevention of marine disasters and pollution, equipped with sophisticated facilities of high capabilities, which can simulate numerous realistic situations and conditions sufficient for a wide variety of effective training and covering several applications and courses in a wide range of Maritime Education Training and port operations for:

- Masters and deck officers.
- Harbor pilots.
- Tug master.
- VTS operators and managers.
- Maritime Search and rescue offices.
- Non-Marine officers.

Course List

- Ship Handling and Maneuvering Simulator
- Maritime Pilot Ship Handling Simulator
- Maritime Pilot Ship Handling Simulator (Maneuvers to SBM)
- Ship To Ship Simulation Ship Handling
- Maneuvering of Large Ships and Ships with Unusual Maneuvering Characteristics Simulator
- Bridge Resource Management Simulator
- Tug Handling and Maneuvering Simulator
- Tug Handling Simulator (ASD)
- Tug Handling Simulator (Voith Schneider)
- Towing operations for Not under command ships
- Vessel Traffic Service - Operator Level
- Vessel Traffic Service - Supervisor Level
- Vessel Traffic Services - Instructor Level
- Maritime Search and Rescue Simulator
- Offshore Support Vessels (OSV)
- ECDIS Specific Training for "Transas Navi-Sailor 4000 ECDIS"
- ECDIS Simulator (Operational Level)
- ECDIS Advanced Simulator (Management Level)
- ECDIS Passage Planning and Watchkeeping
- Bridge Resource Management Awareness Simulation
- Awareness of ECDIS Simulator
- Awareness of Aids to Navigation Simulators
- ASD Tug Awareness
- Bridge Resource Management - pilot (BRMP)



2-Offshore Dynamic Positioning Simulators Systems

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) Established A Dynamic Positioning Training Facility accredited by London Nautical Institute (NI), to meet the needs of the Off-Shore and Petroleum services in the Middle East and The World.

Course List

- Dynamic Positioning Awareness
- Dynamic Positioning Induction
- Dynamic Positioning Advanced
- Dynamic Positioning Maintenance
- Sea Time Reduction
- Dynamic Positioning Revalidation

3-Natural Gas and Petrochemicals Simulator System

A Program of specialized courses that should qualify candidates to work on board Oil, Chemicals and Gas Carriers in accordance with STCW requirements. In addition, special required training by Major Companies is available.

Course List

- Advanced training for oil tanker cargo operation.
- Classroom and Remote simulation
- Basic training for liquefied gas tanker cargo operation
- Advanced training for liquefied gas tanker cargo operation Classroom and Remote simulation
- Advanced training for chemical tanker cargo operation Classroom and Remote simulation
- Ballast Water Management Program and Treatment
- Liquid cargo operations simulator (Cargo and ballast) Training course (LICOS)- Oil Tanker 5
- Classroom and Remote simulation
- Liquid cargo operations simulator (Cargo and ballast) Training course (LICOS)- Chemical Tanker
- Classroom and Remote simulation
- Liquid cargo operations simulator (Cargo and ballast) Training course (LICOS)-LNG Gas Tanker
- Classroom and Remote simulation
- Liquid cargo operations simulator (Cargo and ballast) Training course (LICOS)- LPG Gas Tanker
- Classroom and Remote simulation
- Basic Training for Ships Subject to the IGF Code (1016)
- Classroom and Remote simulation
- Advanced Training for Ships Subject to the IGF Code
- Ship Inspection Program Awareness SIRE 2.0
- Energy Efficient Operation of Ships
- Ballast Water Operations Training
- Liquid Cargo Calculation (Ullage Survey)
- Petroleum and Gas Terminal Operator's and Loading Master ISGOTT/SIGTTO 5
- Oil Tanker and Chemical Tanker – Terminal Safe Operations
- Liquefied Cargo Handling at SBM (Single Buoy Mooring)
- Inspection on Board Oil and Gas Tanker as Per OCIMF Requirements
- Inspection on Board offshore Vessels as per OVID
- Crude oil Maritime platform operation
- Calculation of Petroleum Product Quantities

4-The Environment Protection and Crisis Management

The Environment Protection and Crisis Management Center has a range of mandatory and special training courses, Environment Analysis Laboratory, intelligent tools such as Geospatial Information Technology (GIS & RS) and Highly Professional Team to create, improve the awareness and skills for the concerning government, authority, organization and public.

Course List

- Prevention and Combating Marine Pollution (Mandatory course)
- Oil Spill Response (IMO Level I)
- On-Scene Commanders and Supervisors (IMO Level II)
- Oil Spill Crisis Management (IMO Level III)
- Environmental Impact Assessment
- Introduction to Environmental Disaster Management River Nile Pollution Risk Assessment
- Environmental Pollution and Control
- Integrated Environmental Management for Marine Ports
- Hazardous and Noxious Substances Contingency Planning
- GIS Basemaps and Environmental Applications

5-The Communication and Computing Systems Department (CCSD)

The department vision is to providing the highest level of learning and training quality for maritime radio equipment' operators/users of the different categories such as SAR stations/units' staffs, Vessel Traffic Services (VTS) stations/centers' staffs and the GMDSS trainers, whom work in land station or on-board vessels at different sailing areas, through lectures and participating in interactive GMDSS simulator exercises, the department's courses intends to give the attendances basic theoretical knowledge and practical skills enough to be familiar with the maintenance of marine radio and electronic equipment.

Course List

- General Operator's Certificate 'GOC'.
- Restricted Operator's Certificate 'ROC'.
- GMDSS-GOC Refreshment.
- GMDSS License Re-validation.
- Standards Marine Communication Phrases 'SMCPs'.
- SAR Communication Management.
- GMDSS Equipment Maintenance (level I).
- GMDSS Equipment Maintenance (level II).
- Vessel Traffic Services (VTS) Operator Communication.
- Train the GMDSS Trainers.
- Summer Training for Communication Engineering Students.
- AIS Operation and Maintenance Introductory.



Marine and Offshore Training Center (MOTC) (Cairo Branch)

Course List

- Marine Simulator Systems
  - Ship Handling and Maneuvering Simulator (Huge Container Ship)
  - Ship–To–Ship Transfer Operation Simulator (STS)
  - Maritime Pilot Ship Handling Simulator
  - Maritime Pilot Ship Handling Simulator (Maneuvers to SBM)
  - Offshore and Support Vessel Handling and Maneuvers (OSV)
  - Maritime Search and Rescue Simulator
  - ECDIS Simulator (Operation Level)
  - ECDIS Advanced Simulator (Management Level)
  - Boat Handling Maneuvering Simulator
  - Bridge Resource Management
  - Bridge Resource Management - Offshore
  - Tug Handling Simulato
  - Tug Handling Simulator (ASD)
  - Training the Simulator Trainer and Assessor
  - Radar and ARPA Simulator
  - Aids to Navigation Simulator.
- Offshore and Dynamic Positioning Simulators courses
  - Dynamic Positioning Induction
  - Dynamic Positioning Simulator
  - Dynamic Positioning Revalidation
- Natural Gas and Petrochemicals Simulator courses
  - Basic Training for Liquefied Gas Tanker Cargo Operation
  - Advanced Training for Liquefied Gas Tanker Cargo Operation
  - Advanced Training for Chemical Tanker Cargo Operation
  - Advanced Training for Oil Tanker Cargo Operation
  - Inspection on Board Oil and Gas Tanker as Per OCIMF Requirements
  - Liquefied Cargo Handling at SBM (Single Buoy Mooring)
  - Petroleum and Gas Terminal Operator's (ISGOTT)
  - Ballast Water Management Program and Treatment
  - Inspection on Board off Shore Vessels as per OVID
  - Liquid Cargo Operation Simulator (Cargo and Ballast) Training – Oil
  - Liquid Cargo Operation Simulator (Cargo and Ballast) Training – Gas
  - Liquid Cargo Calculation (Ullage Survey

Note: All our Ship handling/offshore simulators are interfaced with an Intelligent Medical Unit made by General Electric (GE) Company to monitor and analyze the vital bodily functions of the trainee, which will help to assess the trainee mental health and wellbeing during training. This should provide training for Mariners to understand, monitor, and maintain their optimum mental health. This should also provide company management with a psychological assessment

Accreditations

Marine Simulators Department

Certificate regarding the Marine simulators department development by Transas, DNV certificate NTPro 5000.



DNV

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 122826-2012-AQ-ARE-RvA | Initial certification date: 21 October 2012 | Valid: 21 October 2024 – 20 October 2027

This is to certify that the management system of

Arab Academy For Science & Technology & Maritime Transport - Integrated Simulators Complex (ISC)

Abo Qir, Alexandria, Egypt,

and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Provision of simulation based learning, training and consultation services in the fields of Marine, Environmental and Crisis Management, Maritime Communication, and Oil and Natural gas

Place and date: Barendrecht, 04 October 2024

For the issuing office: DNV - Business Assurance Zwolseweg 1, 2994 LB Barendrecht, Netherlands

Erle Koek
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV Business Assurance B.V., Zwolseweg 1, 2994 LB, Barendrecht, Netherlands - TEL: +31(0)102922689. www.dnv.com/assurance

Offshore and Dynamic Positioning simulator systems Department



The Nautical Institute

Certificate of Reaccreditation

This is to certify that the

Arabic Academy for Science and Technology, Maritime Transport Integrated Simulators Complex AASTMT/GE DP Center

has been reaccredited as an approved Dynamic Positioning Training Centre in accordance with The Nautical Institute standards to deliver the following courses:

DP Induction
DP Simulator
Sea Time Reduction
Revalidation /
DP Refresher and Competency Assessment Courses

Certificate valid until 04th October 2027

PRESENTED UNDER OUR HANDS AND THE INSTITUTE SEAL:–

PRESIDENT

CHIEF EXECUTIVE

1739

The Nautical Institute, 202 Lambeth Road, London, SE1 7LQ, United Kingdom is a registered Charity Number 1002462, and Registered as a Company Limited by Guarantee Number 2570030 VAT Number 547 9635 93

Natural Gas and Petrochemicals Simulator System Department



MPRI

L-3 Communications

Maritime Simulator Certificate

Certificate No. 2011-MPRI-EG1004

This is to certify that

L-3 Communications MPRI

certified to ISO 9001:2008

at

Salt Lake City, Utah, United States of America

Has experience supporting the Arab Academy for Science and Technology's Integrated Simulators Complex

1993-present

This Certificate is valid for:

Liquid Cargo Handling Simulator

The liquid cargo handling simulator is built to industry recognized standards and provides realistic training situations in accordance with the provisions of the International Convention on Standards of Training Certification and Watch-keeping (STCW), Chapters II and III.

Place and date:

Alexandria, Virginia 2011-06-27

Stewart Wallace
Major General US Army (retired)
Vice President, MPRI

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

L-3 Communications, MPRI 2961 West California Avenue, Salt Lake City, UT 84104. Tel 888.259.4716 Fax 801.983.9901

Environment Protection and Crisis Management Center



MPRI

L-3 Communications

Maritime Simulator Certificate

Certificate No. 2011-MPRI-EG1012

This is to certify that

L-3 Communications MPRI

certified to ISO 9001:2008

at

Salt Lake City, Utah, United States of America

Has experience supporting the Arab Academy for Science and Technology's Integrated Simulators Complex

1993-present

This Certificate is valid for:

Crisis Management Simulator

The Crisis Management Simulator is built to industry recognized standards to develop the skills required of managers and responders in all-hazards emergency planning, security assessments, strategic concepts development, preparedness training and exercises, and intelligence analysis and information sharing.

Place and date:

Alexandria, Virginia 2011-06-27

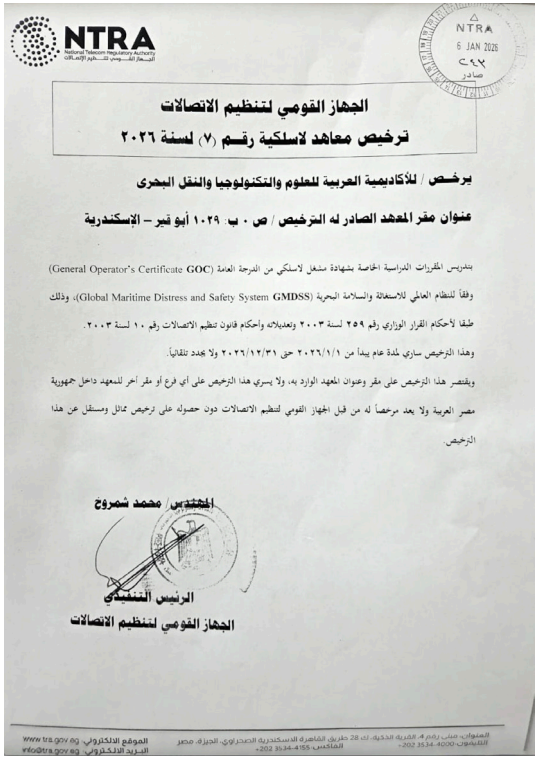
Stewart Wallace
Major General US Army (retired)
Vice President, MPRI

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

L-3 Communications, MPRI 2961 West California Avenue, Salt Lake City, UT 84104. Tel 888.259.4716 Fax 801.983.9901

Communication and Computing Systems Department

The Communication and Computing Systems Department applies and meets the requirements of the IMO's conventions requirement for delivering the different courses, that is the department as part of the ISC is working under the umbrella of the IMO. The GMDSS trainees after they finish their courses at the AASTMT they should set for exam by the Egyptian National Regulatory Authority to issue GMDSS license to the trainee who passes their exam



NTRA
National Telecom Regulatory Authority
الجهاز القومي لتنظيم الاتصالات

NTRA
6 JAN 2026
٢٤٢
صادر

الجهاز القومي لتنظيم الاتصالات

ترخيص معاهد لاسلكية رقم (٧) لسنة ٢٠٢٦

يرخص / للأكاديمية العربية للعلوم والتكنولوجيا والنقل البحرى

عنوان مقر المعهد الصادر له الترخيص / ص . ب: ١٠٢٩ أبو قير – الإسكندرية

بتدريس المقررات الدراسية الخاصة بشهادة مشغل لاسلكي من الدرجة العامة (General Operator's Certificate GOC) وفقاً للنظام العالمي للاستغاثة والسلامة البحرية (Global Maritime Distress and Safety System GMDSS)، وذلك طبقا لأحكام القرار الوزاري رقم ٢٥٩ لسنة ٢٠٠٣ وتعديلاته وأحكام قانون تنظيم الاتصالات رقم ١٠ لسنة ٢٠٠٣.

وهذا الترخيص ساري لمدة عام يبدأ من ٢٠٢٦/١/١ حتى ٢٠٢٦/١٢/٣١ ولا يجدد تلقائياً.

ويقتصر هذا الترخيص على مقر وعنوان المعهد الوارد به، ولا يسري هذا الترخيص على أي فرع أو مقر آخر للمعهد داخل جمهورية مصر العربية ولا يعد مرخصاً له من قبل الجهاز القومي لتنظيم الاتصالات دون حصوله على ترخيص مماثل ومستقل عن هذا الترخيص.

المهندس/ محمد شمروخ

الرئيس التنفيذي

الجهاز القومي لتنظيم الاتصالات

العنوان: مبنى رقم 4، القرية الذكية، ك 28 طريق القاهرة الاسكندرية الصحراوي، الجيزة، مصر
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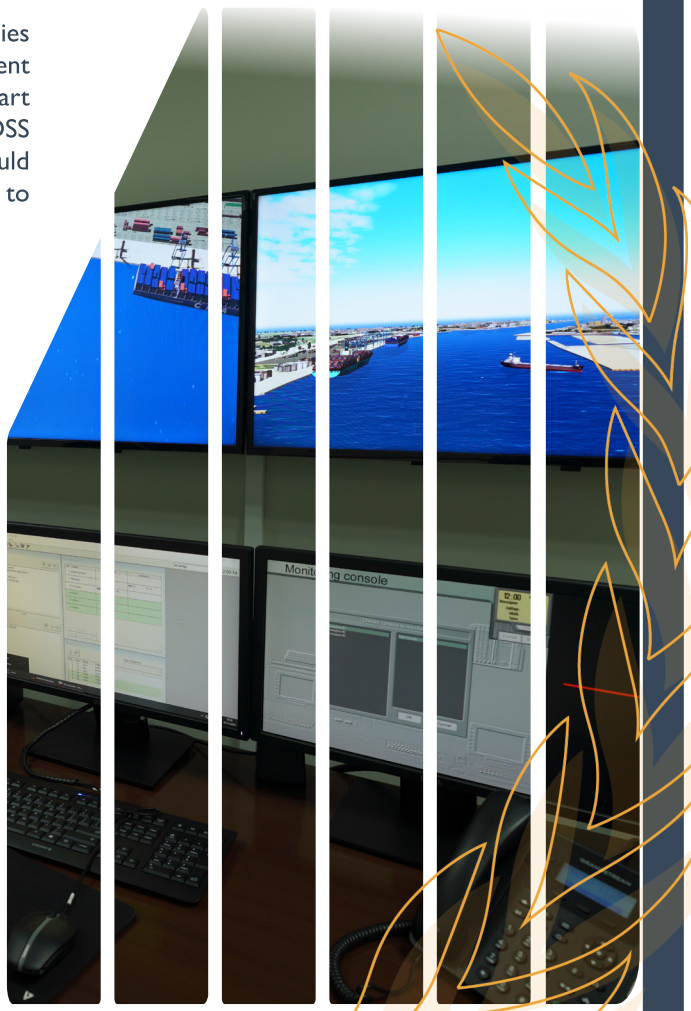


Successful Stories and models

1. Marine Simulator Systems Department.

- The Marine Simulator performed the following researches:
  - Bulk quay at Alexandria port – Egypt.
  - Establishing Port Said East port – Egypt.
  - Establishing El-Sukhnah Port-study – Egypt.
  - Petroleum Quay at El-Dekhila Port – Egypt.
  - Al-Fujairah SBM Terminal – UAE.
  - Damietta LPG-Terminal – Egypt.
  - Damietta LNG-Terminal – Egypt.
  - Damietta E-Methanex-Terminal – Egypt.
  - Damietta Agrium-Terminal – Egypt.
  - Dekhila Mineral Quay – Egypt.
  - River Nile Research – Egypt.
  - King Abdullah Port – Saudi Arabia.
  - Rabegh Port – Saudi Arabia.
  - Eldabaa Port – Egypt
  - Sidi Krir (SUMED) - Egypt

2. Offshore and Dynamic Positioning simulator systems Department

- The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) Signed Training Agreement with the General Electric (GE) Energy power Conversion Company on Tuesday, February 7,2012 for the Establishment of A dynamic Positioning System Training Facility in Alexandria, Egypt and Accredited By London Nautical Institute (NI)



3. Natural Gas and Petrochemicals Department.

- Training Program:
  - The number of courses has been expanded to 22 training program over the last 5 years to cope with STCW and Industry standard
- Feasibility Studies:
  - Damietta LNG gas Jetty (Safety Operation).
  - Damietta E - Methanex Jetty.
  - Fujairah Port Crude Oil Jetty.
- Consultant:
  - Arab Maritime Petroleum Transport Company (AMPTC)
  - Bahri (National Shipping Company of Saudi Arabia)
- Arbitration:
  - Use the Simulator facilities in causality investigation in NABILLA tanker accident.

4. Environment Protection and Crisis Management Center

- Consultation for private Companies on sanitary treatment
- Consultation on Oil Spills Model monitoring for Egyptian coastal line with the Egyptian Environmental Affairs Agency (EEAA)
- Consultations for Oil Companies using The Oil Spill Predictive Model for oil spill tracking in the oil terminals in implementation of the emergency plan at the sites
- Quality tests under the Arab Academy Umbrella within the Environment Assessment for river Nile ports
- Laboratory Analysis on River Nile Water quality
- Climate Change Adaptation and Natural Disasters Preparedness in the Coastal Cities of North Africa Project – Alexandria Area

A Regional Study on Adaptation to Climate Change and Natural Disasters in the Coastal Cities of North Africa (Alexandria in Egypt, Tunis in Tunisia and Casablanca in Morocco and on the Bouregreg Valley between Rabat and Sale in Morocco) was directed and financed by The World Bank. The Alexandria part of the study was carried out by The ISC's Environment Protection Department under the umbrella of The Arab Academy of Science, Technology and Maritime Transportation and the international consulting consortium led by Egis BCEOM of France.

- "Combating Pollution in Water Environments "Training Course, sponsored by Arab Bank for Economic Development in Africa (BADIA) and was conducted for candidates from 14 different African Countries
- "Natural Disaster Risk Management Program "online courses facilitation in coordination with the Global Facility for Disaster Reduction and Recovery (GFDRR) and the World Bank Institute (WBI).

5. Communication and Computing Systems Department.

- Since the GMDSS simulator has been started in 1996, the GMDSS department has provided more than 1970 training courses for more than 22,600 trainees from 44 different nationalities, including marine officers, radio officers, communication engineering, SAR personnel, and VTS personnel. The GMDSS simulator held specialized courses for many companies and authorities

Marine and Offshore Training Center (MOTC) (Cairo Branch)

The Arab Academy for Science, Technology & Maritime Transport (AASTMT) inaugurated the Marine & Offshore Training Center (MOTC), in its premises in Heliopolis – Cairo, in cooperation with MAERSK Training (MT) and (SMA). The center offers training courses for the maritime sector in its various specialties on the latest marine simulation equipment.



Technical Support and Maintenance Department.

- .Achievements:
  - Providing the technical support & consultations to the River Nile Simulator located at The Regional Institute for River Transportation – Cairo
  - Providing the technical support & complete maintenance for the Trucks and Cranes Simulators located at Port Training Institute – Alexandria
  - Providing the technical support & consultations for the Truck Simulator and for the Reverse Engineering Lab located at the Industry Service Complex – AAST&MT, Alexandria.
  - Providing the technical support & participate in the installation of the Train Simulators & develop various laboratories and workshops located at Wardan Training Institute for Railways - Giza
  - Participated with ARI in the installation of the Dynamic Positioning and Crane Simulators located at Integrated Simulators Complex – AAST&MT, Alexandria.
  - Providing the Technical support for the Thermodynamics lab, mechatronics, and network lab located at Engineering & Technology Collage – AAST&MT, Alexandria.
  - The Development team implemented many software solutions for ISC: - Visual components of Marine Simulator prototype, Crisis management software, other business facilitation software (registration system).
  - Putting together and setting up a new simulator for the exhibitions where the Academy takes part (TransMEA, Marlog, CairoICT).
- AWARDS:
  - GE (general electrical co.) Awards technical staff for outstanding job in installation of dynamic positioning simulator.

IMO COMPOUND





Message

To improve the safety and security of shipping and the prevention of marine pollution by ships through fostering the promotion of technical cooperation among developing countries.

Vision

To promote safe, secure, environmentally sound, efficient and sustainable shipping through technical cooperation by delivering technical support and capacity development programs for seafarers, port and maritime administration authorities personnel.

Mission

The mission of the IMO Compound is to promote technical cooperation, mainly in the field of maritime capacity development, held within the framework of the IMO's Integrated Technical Cooperation Programme (ITCP).



IMO COMPOUND

Arab Marine Accident Investigation Center (AMAIC)

The center was established at the International Maritime Organization compound in 2018 at the Academy. The Center can help the Arab countries prepare reports on incidents as per the IMO conventions requirements and United Nations convention on law of the sea (UNCLOS), and in application of the League of Arab State ministers of transport decisions.

Arab Women in Maritime Association (AWIMA)

In 2017 the International Maritime Organization (IMO) has held a conference for Arab Women in its framework to support women's role in Maritime sector, according to the goals of the sustainable development of UN especially the SDG 5. They have decided to establish Arab Women in the Maritime Association (AWIMA) during this conference.

IMO and AASTMT have provided the technical support and the formulation of this resolution it was related to the establishment of this association. It was agreed that the permanent headquarter of the General Secretariat of AWIMA shall be in the IMO Compound at AASTMT as it is a representative to all Arab countries.

Maritime Administration Model Project (IMSAS)

The adoption of the framework and procedures for the scheme marks a new era for the IMO, in which the Organization has at its disposal a tool to achieve harmonized and consistent global implementation of IMO standards, which in turn is key to realizing the IMO objectives of safe, secure, and efficient shipping on clean oceans.

The IMO Compound may assist in undergoing the Audit and will help to identify where capacity-building activities would have the greatest effect and will also enable appropriate action to be much more precisely taken

Port State Control Regimes:

The IMO Compound successfully developed and implemented PSC regimes for Arab nations in Lebanon, Kingdom of Saudi Arabia and Sudan.

Capacity Building Programs (CBPs):

The IMO compound introduces a bundle of Capacity Building Programs (CBPs) for operation and management levels of seafarers in addition to maritime administration and shipping companies.

Tailored Made Courses

The IMO compound introduces a tailored made courses as may be requested by maritime administration and shipping companies& the operation and management levels of seafarers.

Workshops

We have the honor to experience delivery of many workshops in Egypt and many other Arab countries as requested by maritime administrations and companies and in compliance with the IMO requirements.



courses:

No.	Capacity Building Program Title	Days
1	IMO Activities Familiarization	1
2	Designated Person Ashore Obligations: Including cybersecurity and audits of safety management systems	3
3	Port State Control (PSC) Familiarization and Basic Application "Level 1"	3
4	Practical Application of PSC "Level 2"	3
5	Application of PSC for Junior PSCO "Level 3"	5
6	PSC for Senior PSCO "Level 4"	5
7	Flag State Implementation (FSI)	3
8	Maritime Labor Convention (MLC) 2006 Compliance and Application as Amended	3
9	Practical Application of IMO Audit Scheme (IMSAS)	5
10	The Application of Maritime International Conventions and Codes	3
11	Maritime Casualty Investigation Techniques for Marine Investigators	3
12	Practical Implementation requirements of STCW78, as amended	3
13	Marine Superintendent Roles and Responsibilities Including Casualty Investigation	3
14	Introduction to Marine Biofouling: Impacts and Management of Risks	2
15	Introduction to Contracts Management and Disputes Resolution	3
16	MARPOL - The Application of International Convention for the Prevention of Pollution from Ships, MARPOL 73/78. As amended	3
17	SOLAS - The Application of International Convention for the Safety of Life at Sea (SOLAS), 1974, as amended	3
18	Root Cause Analysis in Maritime Casualty Investigation	3
19	Occupational Health, Safety, Security & Environment (HSSE) Governance and Integrated Systems	3
20	Marine Shipping Operations and Charter Parties	5
21	Marine Incident Command and Control	3
22	Vessel Emergency Services	3
23	Foundations of Risk-informed Decision-Making	3
24	Vetting and Port State Control (PSC) Inspections	5
25	Implementing the MASS Code: Preparing for Autonomous Shipping Technologies	2

Accreditations

- The IMO Compound of the AASTMT was established in 2005 to support the members of the league of Arab States in technical support and capacity building of personnel of Maritime administrations and seafarers of management levels and operation levels including shipping companies' personnel. The following accreditation were the base of establishment of the IMO Compound:
- The Arab Ministers of Transport Council Decision number 250/2005 concerning the Arab Academy represents LAS in the International Maritime Organization (IMO).
- The Arab Ministers of Transport Council Decision number 415/2015 concerning the Suitability of the Arab Academy for Science and Technology and Maritime Transport Action plan to activate its role in the International Maritime Organization.

Successful models

Preparation for IMO Audits and Evaluations

The IMO Compound has played a vital role in helping Arab States to meet mandatory international requirements:

Audit Scheme (IMSAS): The Compound offers cooperation to Arab States by training their nominees on the audit scheme requirements to prepare their countries for the mandatory IMO audit. This process is critical as the Compound assists in identifying areas where capacity development would have the greatest effect.

IMO White List (STCW): The Compound's experts assist Arab States in preparing their files for submission to the IMO so they can be fully included in the IMO white list (related to the STCW Convention).

- STCW Independent Evaluation: Experts from the Compound help Arab States to prepare their Independent Evaluation Files that must be approved by the IMO Maritime Safety Committee every 5 years.

Port State Control

IMO Compound was contracted by the Lebanese Maritime Authority to coordinate the establishment of the Lebanese PSC regime and to improve the Lebanese flag state system. The system has been successfully established and is still successfully implemented by the well-trained Lebanese PSC inspectors.

Also IMO Compound established cooperation with Saudi Ports Authority, by which a Saudi regime similar to the successful Lebanese one was founded.

A practical PSC capacity building program was held to nominees from Yemen in cooperation with the Yemeni Maritime Affairs Authority.

Diving Programs





MESSAGE

Training qualified divers who possess the necessary skills and knowledge to dive safely and efficiently, while adhering to the highest safety and quality standards when conducting recreational/tourism or commercial diving activities, working in marine facility maintenance, search and rescue, and contributing to the protection and exploration of the marine environment in a way that serves the community and sustainable development.

Vision

To be the leading diving program in terms of quality of training and international certifications in both commercial and recreational diving, and to create a community of responsible and qualified local and international divers capable of easily completing challenging underwater tasks, and to empower divers to become ambassadors for the protection and preservation of the marine environment through outstanding training and the necessary tools.

Mission

We offer high-quality, safety-focused training delivered by expert and certified instructors. We provide you with the necessary qualifications and skills to succeed, whether you are a beginner, a professional diver, or a company looking to develop your team's skills or obtain accredited certifications. We will empower you to enter the job market locally and internationally, whether you work in commercial diving (oil and gas companies, ports, marine construction, or inspection and maintenance) or recreational diving (rescue, scientific research, tourism, or guiding). This program will help you achieve your goals and increase your profits, as the quality of your training and your safety are guaranteed

Diving Programs

The Academy has taken into account the severe shortcomings in the field of diving in the Arab and African regions, and therefore approved the establishment of a high-level training entity in 1993. This was the diving program, which was one of the programs and departments of the College of Maritime Transport and Technology.

COURSES:

The diving program prepares well-qualified divers who can play a significant role in offshore industries and all other underwater tasks. The Standards of training are in conformity with international standards and are approved by:

Commercial Diving

- Egyptian Authority for maritime safety (EAMS)
- International diving schools association (IDSA)
- Association of diving contractors International (ADCI)

Recreation Diving

Instructor Approved For Recreation Diving From

- Professional associated diving Instructor (PADI)
- Confederation Mandible Des Activities Subaquatiques (World Underwater Federation) (CMAS)





PROFESSIONAL COURSES	
Name	Duration
Commercial Scuba Air Diver IDSA (level 1)	6 Weeks
Surface Supply Inshore Diver IDSA level (1- 2)	10 Weeks
Surface Supply offshore Diver IDSA level (1-2-3)	12 Weeks
Specialized Courses	
Name	Duration
Surface Supply Air Diver Inshore Experience	2 Weeks
Surface Supply Inshore Diver IDSA level (2)	4 Weeks
Surface Supply Air Diver Offshore level(3)	2 Weeks
Underwater Cutting And Welding	1Weeks
Maintenance Of Diving Equipment	1Weeks
Advanced Courses	
Name	Duration
Scuba Supervisor	2 Weeks
Surface Supply Supervisor	3 Weeks
Hyperbaric chamber Operator using oxygen	1 Weeks
Under Water Inspector 3.1U	1 Weeks
Under Water Inspector 3.2U	1 Weeks

Recreation Diving Courses	
PADI	
Name	Duration
Open Water	1 Weeks
Advanced Open Water	1 Weeks
E F R	2 day
Rescue	1 Weeks
CMAS	
Name	Duration
One Star	1 Weeks
Two Star	1 Weeks
Three Star	3 Weeks
Instructor One Star	2Weeks
Instructor Two Star	2Weeks



Accreditations

- (EAMS) Egyptian Authority for Maritime Safety

The Egyptian Authority for Maritime Safety is an independent legal entity affiliated with the Ministry of Transport. Its policy is based on managing and regulating maritime navigation affairs at the national level within the framework of the state's general political and economic plan, and supervising and monitoring the performance of the establishments and agencies responsible for achieving maritime safety.

- (IDSA) The International Diving Schools Association

was formed in 1982 with the primary purpose of developing common International Diving Standards. The Association is concerned with all divers - Offshore, Inshore and Inland.

- (ADCI) Association of Diving Contractors International

ADCI represents the commercial diving industry around the world. Founded in 1968, the Association of Diving Contractors International, Inc. was originally a small group of diving companies with a goal to create a nonprofit organization dedicated to the art and science of commercial diving. The establishment of industry-wide safe standards for commercial diving was the foundation upon which ADCI was built. Since then, ADCI has grown to encompass more than 400 member companies, furnishing services and/or support for the conduct of safe underwater operations from 41 nations throughout the world.

- (DNV)

Maritime Examination Center





Vision

Within the framework of the continuous development of the exam techniques and in compliance with the STCW78 amendments, the Maritime Examination Center prepares integrated development plans which primarily focus on the acquisition of technical skills and the ability to carry out practical tasks rather than focusing on the academics. This could only be achieved through the enhancement of the examination systems in collaboration with marine consultants and and highly esteemed marine academic institutes in the maritime industry.

Mission

The Maritime Examination Center is the only entity in Egypt responsible for setting the examinations for Marine and Engineering COCs for Master, Officers and Marine Engineers, in accordance with the IMO requirements and STCW78 and amendments, under the supervision of the EAMS. Hence, in order to achieve the highest levels of students' satisfaction, the Centre exerts its utmost effort in achieving the following:

1. Conducting the examinations according to the rules and regulations stipulated by the 221 Egyptian Ministerial decree 221 in year 2013.

2. Setting the required measures in order to preserve and achieve the highest levels of ISO standards for setting examinations.
3. Upgrading the performance level of setting examinations via updating the question bank according to the international requirements.

Programs & courses:

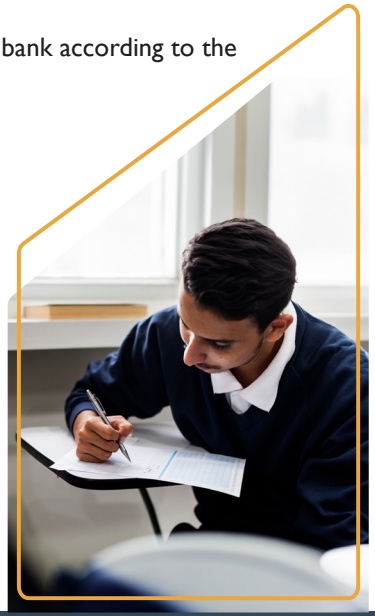
1.Masters & Marine Officers

- https://www.aast.edu/en/centers/mec/contenttemp.php?page_id=47000010

- **Master**
- **Cheif mate**
- **Second officer**
- **Third officer**

2.Renewal of C.O.C.

- https://www.aast.edu/en/centers/mec/contenttemp.php?page_id=47000008



The Arab Institute for Sustainable Blue Economy (AISBE)





Message

The Arab Institute for Sustainable Blue Economy (AISBE) is positioned as a specialized research and innovation institute. Its foundational premise recognizes the intrinsic linkage between local and global blue economy dynamics, asserting that sustainable solutions developed at the regional level hold significant international relevance, while global frameworks require appropriate adaptation to be effective in local environments.

Vision

AISBE envisions itself as a driving force for sustainable blue growth by systematically addressing the combined needs of industrial stakeholders and broader society within the marine and maritime sectors. The institute's vision is operationalized through seven distinct research and innovation activity clusters:

- **Green Maritime Technology:** Development and deployment of advanced technologies for vessel design, propulsion efficiency, decarbonization and emission reduction.
- **Maritime Robotics:** Application of autonomous and remotely operated vehicles (ROVs, AUVs) for exploration, monitoring, and maintenance of marine infrastructure.
- **Maritime Digitalization:** Integration of Internet of Things (IoT), big data analytics, artificial intelligence, and digital twins to optimize maritime operations and logistics and green ports.
- **Maritime Human Element:** Research into seafarer well-being, training, human-machine interaction, and occupational safety in increasingly automated environments.
- **Marine and Maritime Policies:** Analysis and formulation of evidence-based regulatory frameworks governing marine resource use, territorial waters, and international shipping.
- **Regional Cooperation:** Facilitation of collaborative projects and knowledge transfer among nations bordering shared marine basins, particularly within the arab region and adjacent seas.
- **Decarbonization & Marine and Coastal Ecosystems:** Investigation of low-carbon shipping technologies, renewable marine energy sources (offshore wind, wave, tidal), and conservation strategies for critical habitats such as mangroves, seagrasses, and coral reefs.

Mission

The mission of AISBE is articulated through a set of six action-oriented principles that guide its daily operations and long-term strategic planning:

- Inspired by empirical research and cumulative experiential knowledge gained from previous and ongoing marine projects across diverse socio-ecological contexts.
- Depending on the natural endowment of seas and surrounding environments as the foundational resource base for economic, social, and research activities.
- Transform conceptual ideas into demonstrable facts and sustainable innovations through iterative prototyping, field testing, and scalability assessments.
- Strive for engagement with pragmatic visionaries and critical thinkers who can bridge theoretical knowledge with real-world application in policy and industry.
- Build relationships with stakeholders based on trust and mutual respect through transparent communication, co-design of research agendas, and equitable benefit sharing.
- Evolved by connectivity and continuous learning while maintaining organizational flexibility to adapt to emerging scientific discoveries, technological disruptions, and shifting geopolitical priorities.



Objectives

AISBE organizes its activities across five strategic objectives, each with specific sub-components designed to achieve measurable outcomes.

4.1 Research & Development

- Publish original applied research in peer-reviewed journals and technical reports focusing on:
  - Nutrient cycling dynamics in coastal and open ocean systems.
  - Coastal resilience mechanisms against sea-level rise, storm surges, and erosion.
  - Marine renewable energy technologies (offshore wind, floating solar, wave, tidal).
  - Sustainable aquaculture practices including integrated multi-trophic systems.
  - Maritime transport logistics, emissions modeling, and alternative fuels (hydrogen, ammonia, methanol).
  - Climate adaptation strategies for coastal communities and critical infrastructure.

4.2 Education & Training

- Develop and deliver short courses, professional certificates, and diploma programs in the following specialized domains:
  - Coastal Zone Management: Integrated approaches to balancing conservation, development, and community livelihoods.
  - Green Ports and Green Corridors: Low-emission port operations, electrification, shore-side power, and decarbonized shipping routes.
  - Green Finance & Investment: Instruments for funding sustainable marine projects, including blue bonds, impact investing, and risk assessment frameworks.
  - Marine Policy & Governance: Legal and institutional structures for managing marine resources within exclusive economic zones (EEZs) and high seas.
  - Sustainable Fisheries & Aquaculture: Stock assessment, ecosystem-based fisheries management, traceability, and responsible mariculture.

4.3 Funding & Projects

- Build institutional capacity to write, coordinate, and manage research and innovation proposals for competitive funding mechanisms, specifically Establishing internal grants and seeking funds to support pilot projects, feasibility studies, and early-stage innovations that can later attract external investment.

4.4 Outreach & Stakeholder Engagement

- Promote active participation of youth and small-to-medium enterprises (SMEs) in marine technology development and innovation ecosystems, including mentorship programs, hackathons, and incubation support.

4.5 Policy & Governance Support

- Advise national and regional policymaking bodies on sustainable use of marine resources, incorporating principles of environmental integrity, economic feasibility, and social equity.
- Contribute to the development and revision of blue growth strategies, marine spatial planning frameworks, and climate adaptation roadmaps.
- Provide technical assistance to governments and regional organizations in aligning local regulations with international agreements such as the IMO Initial Strategy on GHG Reduction and the Convention on Biological Diversity's targets for marine protected areas.

Hydrographic Survey





Message

The Professional Diploma in Hydrographic Surveying (Cat-B) aims to develop qualified hydrographic professionals for supporting safe navigation, sustainable marine development, and coastal management. The program, approved by the International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers under the International Hydrographic Organization framework. Implemented through cooperation between the College of Maritime Technology and Transport and the Egyptian Naval Hydrographic Department, the program combines academic knowledge with practical training to meet national and international hydrographic requirements.

Vision

Professional diploma program in hydrographic surveying contributes in building highly competent hydrographic surveyors in accordance with international standards. The program looking forward to support maritime safety, marine spatial planning, and blue economy initiatives through advanced education and practical training, through strengthening cooperation between academic institutions and operational hydrographic authorities.

Mission

Professional Diploma in Hydrographic Surveying (Cat-B) is to deliver high-quality education and training over a six-month period, covering basic subjects, essential hydrographic subjects, and Final Field Project (FFP). The program focuses on providing participants with the skills required to plan, and manage hydrographic surveys, process and analyze hydrographic data, and contribute to nautical chart production through a balanced combination of classroom instruction, practical exercises, and field training.



Hydrographic Survey Program

The Hydrographic Survey Program was first introduced in 2008, covering hydrographic subjects to support the growing need for qualified personnel in the maritime environment. In 2017, Arab Academy for Science, Technology and Maritime Transport obtained international recognition to manage the Hydrographic Survey Category B program, in cooperation with the Egyptian Naval Hydrographic Department, for six years. This recognition was successfully renewed in 2024 for an additional six years, reflecting the program's continued compliance with international standards and its academic and operational success. Since first recognition, two courses have been successfully completed, and the third course is currently in progress.





Professional Diploma courses:

The Professional Diploma program is implemented through 14 subjects covering basic subjects, essential hydrographic subjects, and a comprehensive final field project.

Professional Diploma Courses:

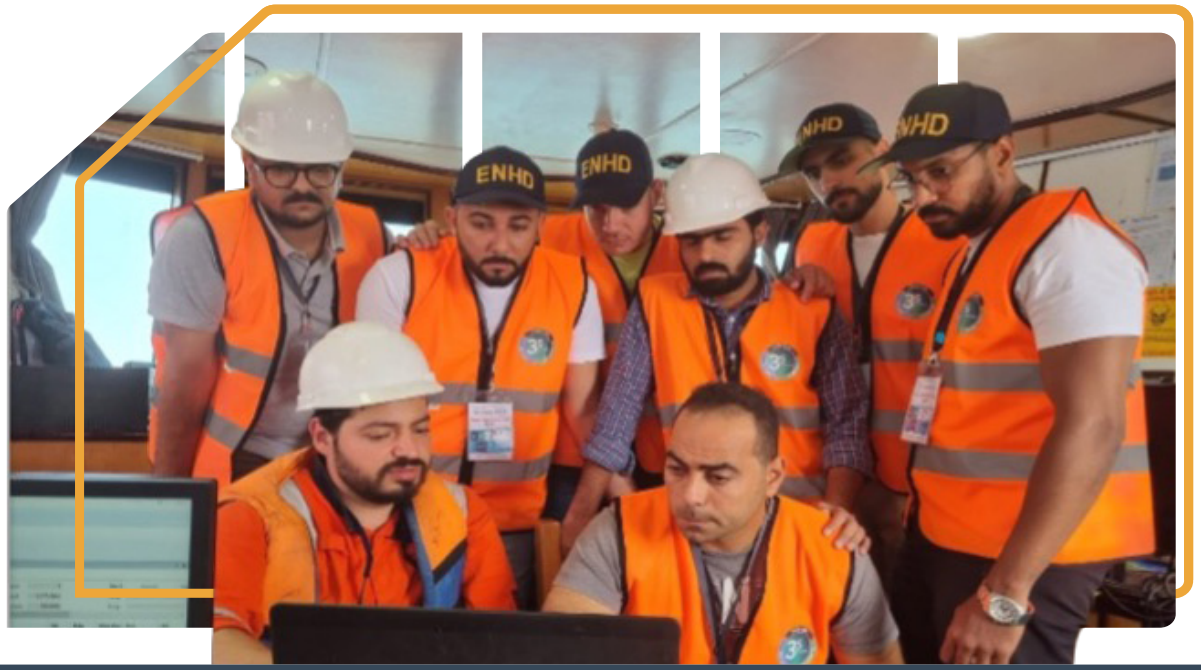
Basic Subjects	Learning Outcomes	Duration
Mathematics, Statistics, Theory of Errors	• Apply 2D transformations involved in surveying and mapping. • Solve linear equations using matrix methods	24 Hours
Information and Communication Technology	• Describe the different components of a real-time data acquisition system. • Use classical office work software suites • Write a program for data format conversion and/or basic algorithm computation.	
Physics	• Describe the relationship between linear and rotational motions through acceleration and velocity. • Differentiate between types of waves and their generation and propagation.	24 Hours
Earth Science	• Describe the internal structure, the physical characters and dynamics of the Earth referring to ocean basin structure. • Describe the ocean bottom as a multilayered structure composed of sediment deposits	24 Hours

Nautical science	• Describe the principal fixed and floating aids to navigation and the use of automatic identification systems. • Describe the components and purpose of GMDSS. • Layout a route on a nautical chart, plot positions, identifies navigational hazards and revise navigational plan as required. • Use content of nautical publications in a survey planning context. • Describe the capabilities, limitations and errors of magnetic and gyro compasses. • Explain the importance of the emergency equipment and procedures. • Describe procedures for maintaining a safe working environment. • Select and tie basic knots. • Deploy and recover oceanographic and hydrographic equipment. • Describe ship and small boats anchoring and ground tackle.	80 Hours
Meteorology	• Define physical meteorological parameters. • Operate instruments and sensors used to register temperature, pressure, direction and intensity of wind. • Explain the relation between atmospheric pressure, temperature and wind.	24 Hours



Essential Subjects	Learning Outcomes	Duration
Underwater Acoustics	• Explain how transducer parameters impact upon beam characteristics. • Using appropriate units, describe acoustic wave behavior with reference to physical properties of the water column. • Set up, deploy, and operate a single beam echo sounder. • Select appropriate range, scale, frequency, and pulse repetition rate for specific applications in relation to spatial resolution, bottom penetration and depth of water. • Set up, deploy, and operate side scan sonar. • Interpret side scan sonar records considering target characteristics, system configuration • Define characteristics of beams in relation to transducer settings. • Determine sounding density and object detection capability as functions of system parameters • Set up, deploy, and operate a swath sonar system • Apply quality control procedures to data acquisition and on-line processing	80 Hours
Remote Sensing	• Explain the principles, capabilities, and limitations of topographic and bathymetric LiDAR. • Extract high and low water lines from bathymetric and topographic LiDAR data sets. • Demonstrate awareness of techniques and data sources in remotely sensed bathymetric data and the spatial parameters associated with such data. • Describe geometrical properties of images and use them to create a shoreline map from images and aerial photographs.	48 Hours

Water Levels and Flow	• Explain tidal characteristics in terms of tide raising forces and local and regional morphological features. • Use tide tables and appropriate software to determine predicted water levels and tidal currents. • Explain the principles of operation of different types of water level gauges. Install, level and calibrate a water level gauge. • Use tidal information, and vessel parameters to reduce soundings to a specified datum. • Configure and calibrate GNSS to reduce soundings to a specified survey datum. • Explain the forces behind currents and change in currents with tides.	56 Hours



Positioning	• Describe the shape of the Earth in terms of potential and ellipsoidal models. • Describe modern geodetic reference systems and associated reference frames. • Describe horizontal and vertical datum transformation concepts. • Describe geometry of lines on the ellipsoid and perform forward and inverse computations on the ellipsoidal surface • Describe the properties and distortions in different types of projections used in maps and charts. • Undertake control surveys, establish, mark and describe control stations. • Describe methods for determining elevation differences. Determine height using GNSS equipment. Compute elevations and leveling networks from observed leveling data. • Describe the deployment, calibration, signal structure and performance of acoustic positioning devices. Describe the use of acoustic positioning systems in offshore survey operations. • Describe principles and use of IMU's including north finding and heave estimation. Compare IMU heading measurements with magnetic and gyro compasses. • Distinguish IMUs and INS, and describe dynamic alignment of INS.	112 Hours



Hydrographic Practice	• Compare, interpret, and apply hydrographic instructions and tenders associated with survey specifications. • Distinguish the roles and responsibilities of individuals within a survey team. • Describe data telemetry in support of on-board survey data including applications and methods. • Explain the importance of the correct installation, calibration and determination of the attitude and position of each sensor. • Setup, integrate and test survey system including sensors, acquisition system time-stamping strategy with appropriate physical offset determination. • Explain the methods of maintaining a survey vessel or survey system on a planned survey line or route. • Plan survey vessel survey lines as well as towed, remote vehicle and autonomous vehicle lines in space and time. • Create and compare different documents associated with survey procedures in alignment with requirements using files, charts and reporting tools. • Detail the role and responsibilities of the hydrographic surveyor as required under professional ethics, industry standards and national/international legislation / conventions. • Explain methods for quality control of survey data and the quality assurance of survey operations. • Describe the types of baselines under • UNCLOS and how the territorial sea limit is projected from them, including the use of low tide elevations. • Explain the potential liability of the hydrographic surveyor	120 Hours



Hydrographic Data Management	• Configure the data collection and recording software for sensors and select sampling rates, gating, and filtering settings. • Assess the total propagated uncertainty of survey data relative to the survey specification • Explain the concepts of raster and vector data models. • Explain the concept and use of Geographical Information Systems (GIS) within the marine environment. • Describe hydrographic deliverables and produce paper products as well as digital products in accordance with specifications and standards. • Describe the process of on-line data validation and selection. • Understanding and know the data meets survey requirements through on-line monitoring of display and visualization tools. • Use monitoring software to detect possible biases and errors. • Create the required data types that will be part of standard exchange formats. • Apply data cleaning techniques using appropriate software. • Distinguish between noise, outliers & real features • Assess the total propagated uncertainty of survey data relative to the survey specification • Apply spatial data processing methods to create digital terrain models or gridded surfaces and contouring. • Apply estimation procedures to survey measurements and volume computations. • Explain the concepts of raster and vector data models.	120 Hours

Hydrographic Data Management	• Describe the concepts of Spatial Data Infrastructures (SDI). • Use file types that support the exchange of hydrographic data to transfer data between acquisition, database and GIS environments. • Explain the concept and use of Geographical Information Systems (GIS) within the marine environment. • Create a GIS project using marine spatial data. • Merge and mash up data sets of different origin by applying datum and projection transformations. • Describe hydrographic deliverables and produce paper products as well as digital products in accordance with specifications and standards. • Prepare a report on a hydrographic survey.	
Environment	• Use oceanographic sensors to measure physical properties of sea water and compute speed of sound using observed physical properties of sea water • Outline wave generation processes and discuss mitigation tactics against the impact of waves in planning survey operations. • Explain the objectives of seabed sampling detailing sampling equipment and how samples are stored and analyzed. • Explain the objectives of seismic surveys and the equipment used to conduct such surveys. • Describe appropriate procedures and limitations for use of surveying equipment in compliance with environmental laws and marine protected area regulations.	



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