



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

## Marine & Offshore Training Center - Cairo

مركز التدريب البحري والأوفشور - القاهرة



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

The center has been accredited as an approved Dynamic Positioning Training Center in accordance with The Nautical Institute standards.



## Full Mission “Class A” Ship Handling Simulator 360 Degrees of Visibility.

It is Multi-tasking full mission ship handling Simulator designed to conduct all type of training for the shipping industry in a Real ship bridge simulated various types and capacities of vessels in different ports and waterways with full 360 degrees' view, it has been designed in accordance with IMO resolutions and fully complies with latest STCW amendments and has been fully certified by DNV for installation to the standards required for Class A.

Its modular design caters for a wide range of training possibilities, including voyage planning, ship handling, and communication and can be used to train beginners and experienced marine professionals.





## Full Mission “Class A” Offshore Operation Simulator 360 Degrees of Visibility

It is Multi-Tasking Offshore Simulator designed to simulate various types of Offshore Units to train Mariners on various types of maneuvering and operations during standard operations and emergencies conditions. The training conduct in a Real ship bridge simulated various types and capacities of offshore vessels / Units in different oil & gas exploration areas with full 360 degrees' view. It has been designed in accordance with IMO resolutions and fully complies with the latest STCW amendments and has been fully certified by DNV for installation to the standards required for Class A.

The Simulator has the capacity to conduct deep water Anchor Handling Operation (Approved by Maersk Training program).





## Dynamic Positioning Simulator “Class B” with 120 Degrees of visibility

Kongsberg DP, K-Pos Maneuvering simulators are designed to support operations, test procedures, increase competence and minimize errors, therefore reducing the amount and ultimately the cost of incidents during DP operations. The Simulator is approved and accredited by London Nautical Institute.

Examples of offshore operations that can be realistically simulated are: -

- Close proximity ship handling, e.g. platform support vessels approach to platforms, buoys, and FPSOs .
- Realistic offshore loading, such as buoy loading, tandem loading, and tug assistance
- Offshore operations such as supply, construction and dive support vessels etc.
- Semi-submersible/drilling vessel station keeping, with the use of DP during drilling operations.

Kongsberg’s dual redundant and type approved K-Pos DP system is integrated into the simulator, so operators can gain experience on exactly the same DP system that is used for controlling hundreds of vessels worldwide.



## Dynamic Positioning Simulator “Class C”

The K-Pos DP operator stations comprise a full operator panel connected to a PC and are arranged in a classroom setting with an instructor station. All DP stations normally simulate the same vessel and DP system configuration but operate independently of each other. The instructor will be able to guide the students when operating the DP system. The built-in simulator offers realistic responses to the operations initiated by each student. The training is done according to Nautical Institute's (NI) certification scheme. Kongsberg DP simulators provide training for most types of DP vessels and configurations, But Customer specific ship models with corresponding DP and hydrodynamic models can be delivered on request.



## Multi-Task Desktop Simulator

The stations are Multi-Task Simulators manufactured by ARI Simulator Company, it can be utilized to work as Ship Handling Simulators Class C, Radar & ARPA Simulators, ECDIS Simulators, Navigation Aids Simulators, and Liquid Cargo Handling Simulators. It has been designed in accordance with IMO resolutions and fully complies with the latest STCW amendments.



## Maritime & Offshore Training Courses

### Marine Simulator Systems

- Ship Handling & Maneuvering Simulator
- Ship Handling & 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 & Support Vessel Handling & Maneuvers (OSV)
- Maritime Search & Rescue Simulator
- ECDIS Simulator (Operation Level)
- ECDIS Advanced Simulator (Management Level)
- Boat Handling Maneuvering Simulator
- Bridge Resource Management
- Bridge Resource Management - Offshore
- Tug Handling Simulator
- Tug Handling Simulator (ASD)
- Training the Simulator Trainer & Assessor
- Radar & ARPA Simulator
- Aids to Navigation Simulator

### Natural Gas & Petrochemicals Simulator

- 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 & Ballast) Training – Oil
- Liquid Cargo Operation Simulator (Cargo & Ballast) Training – Gas
- Liquid Cargo Calculation (Ullage Survey)

### Offshore and Dynamic Positioning Simulators

- Dynamic Positioning Induction
- Dynamic Positioning Simulator

*Note: All our Ship handling / offshore simulators are interfaced with 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 own optimum mental health. This should also provide the companies management a psychological assessment before/during employment or promotion process.*





**MAERSK  
TRAINING**



For Oil & Maritime Services

Marine & Offshore Training Center  
Arab Academy for Science, Technology & Maritime Transport  
P.O. Box -2033 Elhorria  
#1 El Moshir Ahmed Ismail St., Block I 159, Sheraton Bldgs.  
Cairo - Egypt  
Tel: 02 2269 8517  
Fax: 02 2266 5604  
E-mail: [cmc\\_reg@aast.edu](mailto:cmc_reg@aast.edu)