crane operations
Knowledge is the key
lifting training to new heights

The breadth of our Crane Operations course portfolio matches the importance of this vital link in making sure that everything runs smoothly at the terminal on quay or at sea.

Our Crane Operations Department was born out of industry requirements for some method of creating a pool of talent where previously there was no tradition, or need, for such a skilled workforce. It is relatively straightforward to put in concrete and install the heavy equipment in new terminals; what usually is missing is the skilled workforce to man the huge cranes and container handling equipment. Enter CraneSIM, a revolutionary way of taking training to precisely where it is required.

**WE MEASURE KNOWLEDGE**

The value of computerised crane training is not confined to big steel boxes, the baby brother of CraneSIM fits neatly into a suitcase. AssessSIM is a vital tool in making sure that the right person gets to sit in a real crane’s hot seat. It takes special abilities to make a good crane operator and these don’t become evident on an application form. Any deficiencies such as a lack of depth perception or failure to understand sway which might lead to damage are quickly exposed by the highly mobile AssessSIM.

**AssessSIM**

A team of specialist instructors heads our training. All our instructors have experience from working in the industry. They are dedicated to improve safety, and they are highly motivated to deliver a better learning experience. Instructor expertise and industry leading facilities combined not only for training; they are frequently sought after to help develop new equipment and test working practices. We also provide separate AssessSIM for Ship-to-Shore as well as for Offshore Cranes.

**CraneSIM**

The CraneSIMs are two 40’ containers, into each of which is snugly fitted a simulated crane cabin and a mini classroom. They, as with any container, are then independently free to travel the world and once placed on site become temporary training centres. This they have done since 2007 crossing the globe back and forth as new terminals emerge.

**SeaSIM**

The third development in the hardware available from the Crane Operations Department is in the arena of offshore, welcome SeaSIM. The new MOSAIC complex in Svendborg, which brings together the offshore maritime and oil & gas industries on an unprecedented level, now has the final part of the jigsaw, a rig crane simulator. For the first time a crane operator and a rig manager and a DP operator can work together on a project and then walk a few metres and share a coffee break. Through shared experiences they grow and improve their individual contributions to the operation.

The benefits of training on specially designed, equipment-accurate simulators cannot be overstated. Time after time, results indicate that simulator trained operators are faster, safer and more efficient than traditionally trained drivers. This is re-enforced by the improvements shown by established drivers once they are allowed to concentrate on specific moves and response to abnormal situations.

Added to improved performance through the simulator is the simple fact that training on real equipment in real life eats in to real time, real resources and real profit.

**AssessSIM, CraneSIM, SeaSIM – SIMply the best way of doing it.**
AssessSIM
Recruitment
Assessment of experienced operators, Laptop mobility
Training. Both for container terminals and offshore

Imagine an assessment tool that slips into a suitcase and in a matter of minutes can be up and running, that’s AssessSIM. In its simplest form AssessSIM is a laptop with two controllers, but with the addition of a projector you can quickly create a near full cabin training experience. Its value is not confined to assessing potential operators. It can be used to fine tune or re-evaluate experienced drivers or train them in new procedures. Built-in programs allow it to be used for rig cranes as well as container handling equipment.

CraneSIM
Uninterrupted training, on site operator assessment, test new procedures, containerised mobility & pre & post debriefing

The return on the investment for using CraneSIM is continuous and prolonged. In its Oman posting it was noted that the trainees quickly reached 25-30 moves per hour with some hitting 32 mph within a week of completion of the course. This is in addition to there being no impact on the day-to-day operation of the port. Where it has been employed worldwide CraneSIM has shown a proven acceleration in the learning process. The programme involves one week training on basic skills followed by two weeks of attachment training. New drivers have been made ‘cabin ready’ in three weeks when normally you would expect it to take them between two or three months before they reach the same level of capability. It also has the advantage of allowing an accurate assessment of established operator capabilities, since work practices can be evaluated against uniform tasks. In addition it can be used to try out new work practices.
Both CraneSIM and AssessSIM programmes can take place on location.

SeaSIM
Full mission cabin, various crane models programmable work process recorded, focused training & risk-free confidence building

Able to create conditions from a flat calm to a raging sea, SeaSIM offers the only realistic way for a rig crane operator to develop skills without the risk of injuries. The arrival in 2010 of Maersk Offshore Simulation And Innovation Centre – MOSAIC – marked a significant change in the way officers trained for the offshore supply service. Such was its success that a second building was commissioned bringing the world of drilling training to a new level of simulation. The two will work in unison creating a whole world of scenarios and in the middle of the action will be SeaSIM – two separate crane simulators accurately interpret all the movements experienced on rigs and platforms.
5 modules to help you reach your goals

**MODULE 1 - ASSESSMENT**
Evaluating the potential of applicants using the highly mobile AssessSIM laptop crane simulator means that only the right people proceed to the next level. AssessSIM can also be used to fine tune new techniques.

**MODULE 2 - BASIC TRAINING**
We have two CraneSIMs, 40’ containers into which we’ve put a full cabin and mini classroom. Here free from the restrictions of port crane availability participants are on the fast track to being proficient operators.

**MODULE 3 - THEORY**
Surrounded by technology we do not turn our backs on the value of traditional learning and our collection of handbooks cover the theory and practicalities of operating as many as ten different kinds of container handlers.

**MODULE 4 - HANDS ON**
Training isn’t confined to simulation and books, recognising the vital crossover to real equipment, we programme in ‘hands on’ sessions whenever feasible.

**MODULE 5 - CONSULTANCY**
We have contributed to the growth and launching of new terminals across the globe. Through consultancy we offer ‘a third eye’ on how to improve terminal flow and work practices. We also conduct audits and verifications, and help commissioning simulators.
Building upon the successful Train-the-Trainer process we have, in conjunction with APM Terminals, created a way of insuring a universal standard based on best practice for training which establishes and maintains uniform disciplines throughout the industry.

An efficient and safe working environment is greatly enhanced by common work practices where individual terminal operators becomes a team, each member knowing what to expect of each other. Built around modules, the programme is tailored to best suit the precise needs of the terminal or, as when it was successfully launched, to bring a whole region up to a common operational level.

The programme takes experienced operators, develops their communication skills and gives them the tools to train others in such a way that the whole terminal displays better working customs and procedures.

**WE COVER A VERY BROAD RANGE OF CONTAINER HANDLING AND OFFSHORE EQUIPMENT**

- Ship-to-Shore Cranes
- Mobile Harbour Cranes
- Rubber Tyred Gantry Cranes
- Straddle Carriers
- Reach Stackers
- Top Loaders
- Empty Container Handlers
- Heavy Forklifts
- Small Forklifts
- Terminal Tractors

**standardized equipment training**
The inauguration in 2010 of the Maersk Offshore Simulation And Innovation Centre – MOSAIC – broke new ground in terms of creating a vehicle for training officers for the most complex manoeuvres and tasks demanded by the supply service. Now a twin building takes the offshore experience to a new level of integration with a drilling centre able to create the world of rigs and platforms at the touch of a button.

Approaching three hundred computers will re-create the normal and abnormal scenarios encountered, so for the first time seafarers and oilmen can work in conjunction, communicating face to face for feedback and a greater understanding of their respective roles in a shared industry. Through increased knowledge, experience and communication we will help create better practices, understanding and safety.
The final link is the only physical connection between vessel and rig, the crane. Two separate makes of crane - from Drilling Systems and Kongsberg - will be employed to help make MOSAIC I and II the most complete training environment. The Drilling Systems crane simulator will interact with the rigs or platforms whilst the Kongsberg forms a link with the vessels. In addition for flexibility we have two laptop simulators which can be deployed on and offshore.
managing and protecting your most valuable asset
The best from everyone . . . at every level

LEADERSHIP PLUS
This flexible course is new every time we do it. This is because it is based around five modules and we adapt the programme to best fit the particular managerial and leadership qualities most called upon in a specific terminal or over an entire region. Covering business strategy and strategic operations the modules also expand to include leadership skills, confronting or avoiding conflict and an understanding of basic finance, should that be necessary. In its fuller form the nine course days are split by a weekend for homework and concludes with a wrap-up day.

MANAGERIAL SKILLS BUILDER
Target personnel for this course are the next levels of manager down from those who might do Leadership Plus. These supervisors and junior managers gain an understanding of what leadership is about and how as an individual they can affect it with their own personality. Developing communication skills and team leadership, this course is also module driven, taking in motivational feedback, clear goal setting, delegation and performance management.

TRAIN-THE-TRAINER
The method we’ve developed to accelerate the learning process is to create in-house trainers. Over a three-day course we train the trainers who will carry the message forward. It’s a programme which is cost-effective and helps establish greater ownership of the project within the company whilst bringing individual talents to the fore.

The best for everyone . . . at every level

SAFETY FIRST
The most important message we want to convey is that operating at speed can be dangerous, but controlled operation at speed is skill and skill is efficiency. Safe operation is our first priority with the ability to do it proficiently, second. Perfection is when they come together.

Perhaps the most consistent aspect of any Maersk Training course is in the desire to get the most out of the learning situation. To this end the portfolio and the course material continually evolve taking into account the precise needs of individual clients. Across the world and across industries we have carried out workshop projects, large and small. These Safety Culture Workshops and Safety Awareness Campaigns have had immediate and lasting impact on the accident statistics of those who have taken part.

Equally our training methods are as varied as the message we get across. From laptop to full cabin simulation, from theory to hands-on, from a tailor-made combination of any or all, we build every course around a solid foundation and deliver it wherever is most suitable.