

MIDDLE EAST FOR COMMERCIAL DIVING MECD

**Courses
overview**



ABOUT US

MECD is a school with a multi-disciplinary approach. Our primary focus is to deliver quality education in inland and offshore diving, underwater welder training, ROVs along with professional safety training. With our desire to be the most prestigious commercial diving institute in the Middle East, we have been constantly upgrading our courses, curriculum, facilities, certifications, equipment and technology to meet the international standards of commercial diving. Our extensive research and knowledge in the industry has allowed us to stay ahead of the current trends in various underwater fields, ranging from oil industry to inland harbors to international rivers.



OUR MISSION

We have established our platform with the sole mission to be the leading commercial diving institute in the Middle East, providing necessary training and education to students worldwide, so that they can embark upon an exciting and successful career in various fields. Our courses have been aligned with modern equipment and industry needs thus providing our graduates an extra advantage.

OUR VISION

Since our inception, our vision was to deliver training based on real-world experiences. We have always remained focused on preparing our graduates for mainstream professional diving careers. With our coherent, up to date and concise courses, we allow our graduates to learn standard professional practices in the minimum time possible. Our training crew and staff members are friendly and supportive. And under their guidance, our graduates will also learn to make a productive and fruitful career choice.





PROFESSIONAL UNDERWATER TRAINING

We are

- International Marine Contractors Association (IMCA training T2 Supplier)
- International Diving School Association Full member (IDSA FF32)
- Dive Lab approved training school for Kirby Morgan Courses
- International Marine Contractors Association (T2 ROV training establishment)
- American Welding Society (Institutional member)
- Egyptian Welding Society
- Egyptian Authority for Maritime Safety EAMS
- International Diving Safety Standards Commission IDSSC
- NAUI Affiliate Member
- Divers Alert Network DAN Professional partner.
- European underwater federation ISO standards (EUF – NAUI affiliate)
- ISO 9001





OUR COURSES

Middle East for Commercial Diving offers the most comprehensive commercial diving training courses for students in the field of commercial diving. Our courses are directed towards students who seek career opportunities in new horizons. With prestigious accreditations, we train students with the aim to transform their diving skills into perfect. Our courses train them to perform in accordance with the international safety standards.

Our courses include:

- Commercial scuba diver (30m) IDSA level 1
- Surface Supplied Air Diver (30m) IDSA level 2
- Surface Supplied Air Diver (50m) IDSA level 3
- Assessment for Experienced Divers
- Underwater Welding course
- Trainee Air Diving Supervisor TADS course (IMCA Recognized)
- Inshore / Offshore diving supervisor
- DMT / DMTR (IMCA Recognized)
- Chamber Operator
- Client Representative
- Kirby Morgan hat technician / operator.
- Air Diving system Technician
- Underwater photography
- First aid for diving
- DP awareness
- Offshore awareness
- Commercial Diving Safety
- ROV Pilot technician courses
- ROV Certificate of competence



TRAINEE AIR DIVING SUPERVISOR TADS (IMCA RECOGNIZED)



Course Overview

The Dive Supervisors Scheme provides a training and certification standard for air diving supervisors with a career structure detailed in document IMCA D 014 IMCA international code of practice for offshore diving. This course is the first step for any IMCA diver wishing to further their career and become an offshore supervisor.

Course Content

The course is approved by IMCA and follows their guidelines. Experienced personnel will give instruction on the following topics: -

- Diving Physics
- Anatomy & Physiology
- Plant & Equipment
- Legislation & Guidance
- Emergency Procedures
- Air Diving Emergencies
- Techniques/Procedures
- Safety on the Surface
- Air Diving from DP Vessels
- Leadership



Entry Requirement

Hold an IMCA recognized surface supplied diving qualification as set out in the IMCA International Code of Practice for Offshore Diving.

Have demonstrated competence as an offshore air diver and have completed 100 offshore commercial air dives prior to attending the course.

Certification

On completion of the course, after having successfully passed our in-house exams, each student is issued with a completion certificate for Assistant Air Diving Supervisor recognized by IMCA

Course Duration

5 Days online / in person course

DIVER MEDIC TRAINING (IMCA)

Course Overview

While working offshore, divers & supervisors should be trained in first aid – generally referred to as a ‘diver medic’. IMCA advise that all divers should complete a Diver Medic Technician course as part of their diver training.



Course Objectives

Diver Medic should:

- Capable of administering First Aid and emergency treatment and of carrying out the directions of a doctor pending the arrival of more skilled medical aid;
- Capable of communicating understandably by telephone, radio or facsimile with the doctor;
- Familiar with diving procedures and compression chamber operation, and
- Able to assist the diving supervisor with decompression procedures and advising when medical help should be sought.

Course Content

- Casualty Handling Under Pressure
- Care of Medical Equipment/Record Keeping
- Diving Related Illness: Barotraumas, DCI, Decompression Illness
- Control & Management of Dive Related Injury or Illness
- Insertion of Chest Drain
- Patient Examination
- Basic Anatomy & Physiology
- Intraosseous Infusion
- Advanced Life Support / Use of Defibrillator
- Oxygen Administration



Entry Requirement

- The student must hold an offshore qualification in diving. This can be an LSS, LST, Diving Supervisor, or Diver qualification recognized by IMCA (which is at an offshore grade)
- The student must hold a valid diving medical as suitable to go under pressure in a chamber. Certificates for those not meeting the above criteria will not refer to IMCA in any way.

Certification

On successful completion of the course candidates receive DMT IMCA recognized certificate which is valid for 2 years from date of issue.

Course Duration

10 Days

DIVER MEDIC TRAINING REFRESHER (IMCA)



Course Overview

These 7 days refresher course has been designed for those wishing to renew their IMCA Diver Medic Technician Certificate.

Course Content

- Casualty Handling Under Pressure
- Care of Medical Equipment/Record Keeping
- Diving Related Illness: Barotraumas, DCI, Decompression Illness - Advanced Life Support
- Control & Management of Dive Related Injury or Illness
- Insertion of Chest Drain
- Patient Examination
- Basic Anatomy & Physiology
- Intraosseous Infusion
- Use of Defibrillator
- Oxygen Administration



Entry Requirement

Attendees will be required to have undertaken a Diver Medic course and hold a full and valid Diver Medic certificate.

Hold a valid diving medical as suitable to go under pressure in a chamber.

Certification

On successful completion of the course candidates receive DMT IMCA recognized certificate which is valid for 2 years from date of issue.

Course Duration

7 Days



KIRBY MORGAN HAT REPAIR & TECHNICIAN COURSE

This course is designed to teach commercial divers, tenders, and technicians how to perform routine maintenance, annual inspections, and repair of Kirby Morgan helmets and band masks. The course also teaches students the KMDSI/DiveLab recommended standards for use of Kirby Morgan helmets and band masks.

The training includes the use of Kirby Morgan operational check lists, helmets and bandmasks overhaul procedures, How to properly log maintenance and repairs, cleaning and sanitizing, face port insert inspection and testing, monthly helmet inspection procedure & daily pre/post dive procedures.



Course Duration : 3 days

KIRBY MORGAN HAT USER OPERATOR COURSE

The course designed to teach commercial diving personnel standardised inspection, set-up, and operation procedures for the KMDSI Helmets and Band Masks.

This course is primarily intended to teach commercial divers & diving personnel standardized procedures for the use of KMDSI Helmets and Masks, "it is not a Repair/Technician Course". The operator / user course instructs commercial divers, tenders, and supervisors how to perform routine daily pre-dive / post-dive procedures as well as corrective adjustments and to identify equipment deficiencies, which could hamper helmet or Band Mask performance and/or pose a potential hazard. The course teaches the KMDSI monthly, and daily helmet and Band Mask pre/post dive maintenance, set-up, adjustment, and inspection procedures for Kirby Morgan Helmets, Band Masks and other specific associated equipment including first stage regulators, whips and gauges. Upon completion, each student will receive a two-year certification. The course does not qualify or certify the individual to perform repairs, overhauls, or annual face port insert testing. Upon successful completion of the course and assigned tests, each student will receive a two year certification from Dive Lab initially and three years upon re-certification



Course duration : 2 days

AIR DIVING SYSTEM TECHNICIAN

Course Overview

Dive Technicians carry out the vital and responsible job of maintaining diving equipment and diving systems. The importance of correct servicing and repair is recognized throughout the industry and proof of competency is now required. The syllabus offers an excellent practical background of diving equipment and system maintenance as well as comprehension of relevant legislation, industry standards and systems including IMCA's DESIGN document and Planned Maintenance Systems.

Course Objectives

The Dive Technician course has been created to enable a person of technical background the ability to safely maintain much of the life support equipment found on dive sites in inshore and offshore diving environments.

This training course has been designed to enable rapid progression onto the Dive Technician Scheme. Completion of this module prepares the new entrant for practical work as a workshop trainee.

Course Content

Modules on the following topics:

- General Introduction, Legal & Industry Guidelines
- Basics Physics & Physiology ~ how pressure affects the diver
- Introduction to Air & Saturation Components & Procedures
- Planned Maintenance Systems and Requirements
- IMCA D018, DESIGN D023, DESIGN D024 and supporting docs.
- Dive System Assurance Awareness & Bailout & Cylinder Inspection
- Chamber Relief Valve Testing & Maintenance
- Oxygen Cleaning & Air Purity Testing
- Gas Analysis, Calibration of Analysers ,High Pressure Regulator Maintenance
- Life Support and Pressure Gauge Calibration
- Permit to Work / Lock Out Tag Out / Confined Space Entry
- Management of Change
- Introduction to Electrical Safety / Isolations
- Diver Communication System Testing and Fault Finding.
- Use of LP & HP Compressors, Gas Transfer and Safety.
- Review of IMCA Safety Flashes and Lessons Learnt



Certification

On completion of the course, each student is issued with MECD certificate of competence.

Course Duration

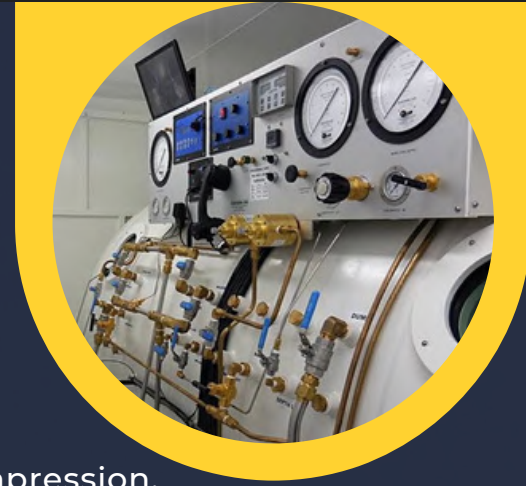
10 Days



CHAMBER OPERATOR

Course Overview

Chamber Supervisors/Operators carry out the vital tasks associated with the operation and safe use of recompression chambers. They must be able to operate the chamber for treatments or for surface decompression.



Course Objectives

The objectives of the course are to provide a theoretical and operational understanding of the physics and physiology of diving, to familiarize entrants with the current legislation and to provide a working knowledge of plant and equipment, gas systems, documentation and record keeping. The course is designed to provide practical experience of the correct operation of air chambers.

Course Content

Experienced personnel will give instruction on the following topics: -

- Role of Supervisor / Attendant
- Basic Diving Physics & Physiology
- Decompression Theory
- Decompression Illness
- Re-compression Methods
- Chamber Construction
- Chamber Hygiene & Hazards
- Fire Safety & Accidents
- Chamber Medic
- Chamber Layout & Checks
- Practical Chamber Operation - Emergency Procedures

Entry Requirement

No prior experience is required for this course.

Certification

On completion of the course, each student is issued with a MECD chamber operator certificate of training.

Course Duration

3 Days



WORK SITE CLIENT REPRESENTATIVE

The Client Worksite Representative acts as the 'eyes and ears' of the client with regards to safety, planning, system and procedural assurance, day to day operations, contractual requirements, for what maybe both onshore preparation and offshore operations of a project. This course has been developed to enable delegates to understand their roles and responsibilities as outlined by industry guidance documents issued by International Marine Contractors Association (IMCA) as well as any legislative requirements due to area of operation.

COURSE OBJECTIVES

To ensure the delegate is fully aware of the requirements and duties of the Client Worksite Representative, such as:

- Compliance with Health & Safety issues
- Compliance with Local & International guidelines and regulations
- The Principles of Risk Management Process
- The Principles of Management of Change procedures
- Incident Investigation and Reporting requirements
- Ensure work procedures are carried out correctly, accurately, efficiently and safely.
- Report on work progress, lessons learned and any useful recommendation for improvements
- Understand what is expected of the client (diving) representative.
- Diving System Assurance process and requirements
- Monitor competence issues within the team
- This course offers a holistic overview of offshore legislation and the common issues affecting offshore construction, diving and maritime operations. These issues are further explored to deal with regional differences. The training is structured and in accordance with reference to IMCA documentation.

ENTRY REQUIREMENTS

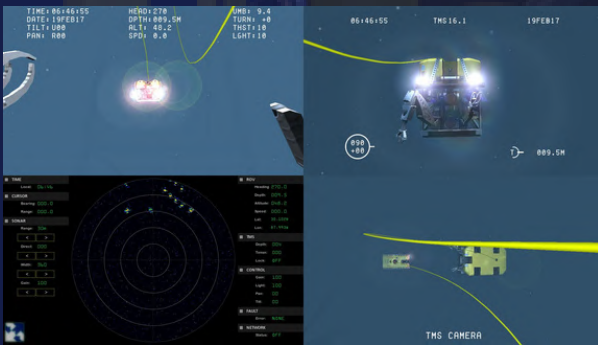
Delegates should have experience (min. 2 years preferably 5 years in a supervisory / management position) in their relevant offshore discipline (marine, diving, ROV, survey/inspection, underwater engineering) and be familiar (preferred training) with dynamic positioning and position referencing systems.



ROV COURSES



ROV pilot technician is one of well-respected and highly paid careers in the offshore. Training can help you to advance your career in the world of deep-sea piloting. If you are new in the field, then the courses can help you to develop a basic understanding of ROVs and become an expert with the help of our qualified instructors.



Multi-ROV training simulator

We use ROV simulation program intended for ROV pilot training and familiarisation. It includes two ROVs (working & observation class) with 5 and 7 DOF manipulators, Laser measuring device, Cathodic Potential (CP) Probe, Suction Dredge Tool & Water sampler. It has 18 missions and a complete set of user controls, including: sea state, current, visibility, day/night, input, collisions, serial data output, etc. Our training simulator complies with the requirements for IMCA Class B simulators.

Our ROV courses include:

- IMCA Approved ROV introductory course.
- ROV pilot technician grade II
- Basics of ROV Electronics
- Fiber Optics.
- High Voltage Electricity
- ROV Familiarisation
- Certificate of competency





SURFACE SUPPLY AIR DIVER IDSA LEVEL 1, 2 & 3

Course Overview

Surface supply air diver inshore course, students study surface supply system, using the control panel, umbilical and commercial diving helmets, students can communicate easily with their instructor to continuously receive his instructions or updates and have their breathing air through the surface allowing them to stay for a longer duration below the water performing different tasks.

They also gain the experience of using underwater tools and performing different tasks related to commercial diving like underwater welding, hydraulics, airlift, lifting bags, diving basket, wetbell ...etc.

In addition to practical study, students have to fulfill the theoretical part including diving physics, diving physiology, diving tables, underwater communications, diving related illness first aid, etc.

Graduates can apply for jobs in commercial diving companies, petroleum companies, ports, ship services, stations ... etc.

The maximum depth of this course is 30 meters

Entry Requirement

- Swimming
- Educational certificate
- Able to solve simple equations
- Medically fit

Certificates

- Surface supply diver 30/50 m certificate.
- IDSA level 1/ 2/ 3 qualification cards
- First Aid Certificate.
- Logbook with certified medical check and course dives.
- Medical certificate from HBC

Course duration:

8 weeks for level 2 / two weeks extra for level 3



UNDER WATER WELDING & CUTTING

One of the most popular training in commercial diving industry is underwater welding course. In this course, the student is trained on different positions of underwater welding and cutting using surface supply system ensuring their safety.

For Eligibility to the underwater welding course candidates should have the following:

- Having surface supply 30 meters certificate
- Valid medical examination and logbook

Certificates given at the end of the course:

Underwater welding certificate.







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