

ASSOCIATION OF SCUBA SERVICE ENGINEERS & TECHNICIANS

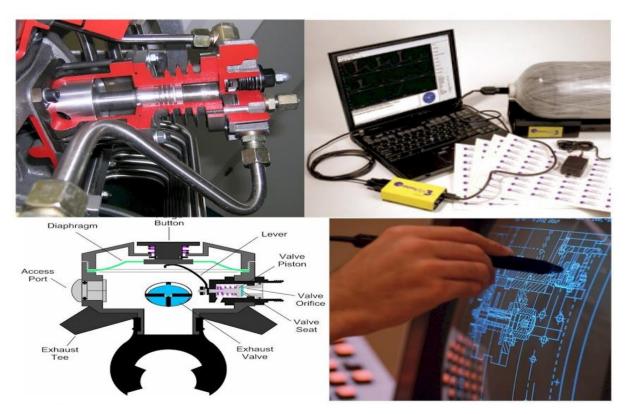
Dive Industry Technician Training Courses

+++ Regulator Repair +++ Compressor Repair +++ Scuba Cylinder Visual & Hydrostatic inspection









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ASSET/IDEST Approved Dive Industry Technician Courses

Training Course Brochure

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An ASSET, IDEST & SITA APPROVED TRAINING PROVIDER



ASSOCIATION OF SCUBA SERVICE ENGINEERS & TECHNICIANS

The World Leaders in Technician Training & Standards for the Diving Industry

AIMS OF THE ASSOCIATION

- To Educate
- To Set Training Standards
- o To Improve Customer Service
- Originate & Implement Codes Of Practices
- o Represent Members Interests

- o Promote Quality Assurance
- Training & Development
- Set Technical Standards

BENEFITS OF MEMBERSHIP

- Access to the on-line database of Manufacturers drawings, Parts Lists and technical Data at
 <u>www.scubaengineer.com</u> & <u>www.scubaspareparts.com</u> for regulators, compressors, Scuba tanks etc. All
 major makes & models covered.
- Access to Regulator Spare Parts, Overhaul Kits, Custom tools for regulator and compressor overhaul at www.scubaengineer.com
- Consultancy and advice on repair Design, Maintenance, Test.



EASYTEK CO LTD.,

High Pressure Engineering Services An A.S.S.E.T., IDEST & SITA Approved Training Provider

- Easytek Co Ltd together with STATS in the United Kingdom have provided a unique service to Commercial Diving Companies, Military Diving Teams, Government Inspectors, Recreational Dive Centres, SCBA Life Support Technicians, High Pressure Cylinder Inspectors, and other Dive Industry Professionals internationally for more than 20 years drawing on the wide experience of its principal staff. During this time more than 1,400 Dive Technicians have been trained.
- Divers life support equipment maintenance regulators, compressors, cylinders, rebreathers, hydrostatic test equipment design, NDT analysis
- · Commercial diving, & Maritime consultancy. Dive incident investigation & expert witness testimony
- Custom Decompression methodology for 1,000ft Trimix diving.
- Approved engineering training. Trimix / Heliar Decompression diving, sunken vessel survey, underwater artifact & body recovery.
- Repair, servicing & testing traceable to National standards. Design, Manufacture and sales of custom tools, adapters and test equipment for Divers life support equipment servicing and other critical high pressure applications.

TECHNICIAN TRAINING IN RELATION TO ASSET STANDARDS & IDEST APPROVAL

Expansion of the IDEST Approval Scheme

ASSET, IDEST and SITA have joined forces and agreed to set comprehensive standards for the Maintenance and Testing of Diving Equipment, by implementing expanded Standards and Approval Scheme developed by ASSET. Approval is now available for both Cylinder Testing and for Regulator Maintenance (compressed air).

Technician Training is central to the above agreement. In order to achieve IDEST Approval and comply with ASSET Codes of Practice, all new Service Centres or Test Stations must employ ASSET Technicians holding the appropriate Certification. For Cylinder Testing, existing IDEST Test Houses may come under slightly different compliance rules.

IDEST Approval and ASSET Technician Certification

In order to satisfy the requirement for a 'Competent Person', ASSET has set Certification Grades for its Technician Members; Technicians are graded according to training and experience.

These grades are:

ASSOCIATE, TECHNICIAN, ADVANCED TECHNICIAN, CYLINDER TESTING TECHNICIAN, NITROX TECHNICIAN

- An IDEST Approved Regulator Service Centre working in accordance with ASSET CP1 must employ an ASSET Advanced Technician.
- An IDEST Approved Cylinder Test Station working in accordance with ASSET CP2 must employ an ASSET Cylinder Tester. (For Cylinder Testing, existing IDEST Test Houses may come under slightly different compliance rules, please ask for information.)
- An IDEST Approved Nitrox Service Centre working in accordance with ASSET CP3 must employ an ASSET Nitrox Technician.
- An IDEST Approved Breathing Gas Producer working in accordance with ASSET CP4 must employ an ASSET Nitrox Gas Blender and/or Compressor Operator.



Technicians Training

ASSET Certified Technicians receive comprehensive theoretical and practical training. A comprehensive range of highly practical certification courses have been developed, which include:

- Dive Industry Technicians Course (DITC).
- Advanced Technicians Course
- Nitrox Technician and Gas Blending Course
- Cylinder Testing Technicians Course
- A Compressor Air Systems Management Course (CASM)

DIVE INDUSTRY TECHNICIANS COURSE - 10 DAYS



This is a 10-day A.S.S.E.T. & S.I.T.A. and IDEST approved course, covering all aspects of service, repair and workshop operation. The course has a 9-module curriculum supported by a Dive Industry Technicians Handbook specially written to accompany the course.

The course is designed to give as much emphasis on practical knowledge and skills with a large proportion of the course devoted to 'hands on' practical work.

Syllabus includes:

- o The physics of diving related plant and equipment
- Equipment theory design and construction
- Setting up a professional workshop
- Working practices, standards and procedures
- Cylinder testing (pt 1) Visual Inspection & hydraulic testing
- Regulator service and repair
- Compressors, air banks operation and air quality (CASM)
- Basic metallurgy
- Warranties and customer care
- Regulations and standards
- NDT Eddy Current Testing Aluminium Cylinders

This is a highly practical course, with hands on experience gained in a busy scuba workshop.

Course Pre requisites: None

Please note: This course is suitable for the complete beginner and more experienced person alike as the small class numbers (max 8) allows the Instructor to cater to the requirements of all levels



OXYGEN TECHNICIAN & GAS BLENDER COURSE - 2 DAYS

The A.S.S.E.T. Oxygen Service Technician & Gas Blender Courses are of the same high standard as the Dive Industry Technicians Course. Developed to reflect the Engineering, Gas Industry, British and International standards. They are essential for anyone who is serious about mixed gas blending involving Nitrox/Heliox/Trimix.

The course is delivered by one of the most experienced and respected Technician Trainers in the **Diving Industry**

Full technical information, spreadsheets & software included in this course that trains the technician to mix gas within Commercial, Military and recreational diving industries without the 'black art" approach so often found in similar courses. Explains the lack of legal background and historical basis for the "40% rule" for high pressure applications and compares the differences between both US, EC and Industry lead body regulations that contradict this practice.

Simplified maths and a practical approach make Gas Blending relatively safe and easv.

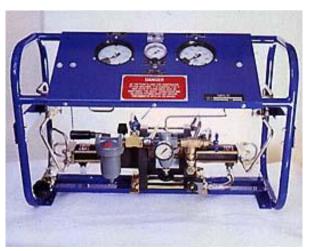
Comprehensive Gas Blending Software provided Free with the course.

Workshop session using Oxygen / Helium analysers, together with demonstration of both partial pressure and continuous blending techniques and use of the Haskel Oxygen booster pump.

Course pre requisites: - Compressed Air Systems Management Course or DITC

OXYGEN TECHNICIANS COURSE - 1 DAY

Learn how to 02 clean to industrial standards without spending a fortune on equipment. Sound practical advice with many invaluable tips that only an experienced Technician Trainer can offer.



For DITC graduates, an example high pressure oxygen regulator will be stripped down and O2 cleaned with final proof testing on 200bars/3,000psi oxygen during the workshop session.

Pre requisites:

Manufacturers Service Course certificate

Or Dive Industry Technicians Course DITC certificate

Note: - Dates for theses courses are designed to offer them as either a 1 or 2 day extension to the 10 day Dive Industry Technicians Course.

ASSET NITROX STANDARDS - ORIENTATION/CROSS OVER COURSES

FOR TECHNICIANS WHO ARE CERTIFIED BY OTHER AGENCIES

You will need to attend the 2-day course as above but we offer the course at a special rate as a cross over course to existing technicians who hold Nitrox certification from other Nitrox Agencies.

CYLINDER TESTING PART 2- HYDROSTATIC – 2 DAYS





Please note: if you have previously completed a Dive Industry Technicians Course or an IDEST course you will need to complete the last 2 days of this course only. Existing IDEST Test Houses may come under slightly different compliance rules, please ask for information.

Syllabus includes:

- Metallurgy
- Inspection
- Determination

COMPOSITE CYLINDER INSPECTION & TEST COURSE 1 DAY *NEW*



Due to demand from Cylinder Inspection technicians and the industry, ASSET is pleased to announce the launch of its Composite Cylinder Inspection & Testing Course.

This course is designed for qualified cylinder testers and delivered to ASSET's world class training standard by qualified Technician Instructors with years of current field experience. Taught at a purpose built cylinder inspection facility

Theory: Differences in inspecting Composite Cylinder over solid steel or solid aluminium

Workshop: Practice in inspecting a range of composite cylinder defects at grades 1, 2 & 3

Course Pre requisites: ASSET or IDEST Cylinder Testers qualification

INCLUDES: Handbook: Course Completion Certificate

CYLINDER TESTING TECHNICIAN COURSE PT1&2 - 4 DAYS





The course outlines all the current regulations to test D.O.T. and CE approved scuba cylinders, which represent the majority of all cylinders, found world wide together with information on testing to the older British Standards.

Changes in European legislation together with the requirement for 'competent and approved' persons to carry out cylinder testing have created the need for a higher standard of training and certification of those who

carry out this work. The A.S.S.E.T. approved 4 day CYLINDER TESTING TECHNICIANS COURSE is a comprehensive training course covering the theory and practice of cylinder testing.

This course is a pre requisite all new Centres applying for IDEST Test House Approval

The **theory** part of the course includes:

- o Cylinder testing practices and procedures; Hydrostatic, Visual & Eddy Current
- Valve maintenance
- Thread gauging
- Standards
- Codes of practice
- DOT, CGA & HSE Procedures and regulations.

The **practical** part of the course is designed to introduce all the required practical skills including:

- Inspection
- Measurement
- Hydrostatic Testing etc.
- Metallurgy
- Determination
- NDT Eddy Current Testing Aluminium Cylinders

On successful completion of the Cylinder Testing course the candidate will be awarded the A.S.S.E.T. Membership Grade of CYLINDER TESTING TECHNICIAN

Course Pre requisites: None

<u>ADVANCED TECHNICIANS ORIENTATION & ASSESSMENT –</u> 3 DAYS







In Health and Safety Law, there is a requirement that the maintenance of critical systems such as breathing apparatus and pressure vessels, must be carried out by a "Competent Person". Competence may be defined as trained, certified and experienced.

The ASSET Advanced Technicians Certification builds on the knowledge and skills learned in the DITC providing a benchmark for the competence of Scuba Technicians.

During the assessment you will reprise Standards, Procedures and Technical issues then undergo a comprehensive evaluation of knowledge and practical skills.

ASSET Code of Practice CP1 requires that an IDEST Approved Scuba Service Centre will have an ASSET Advanced Technician on its staff.

Pre-requisites:

- Hold the Dive Industry Technicians Certificate and have documented proof of 12 months full time (or the
 equivalent part time) experience in the maintenance and repair of diving equipment.
- Hold the Dive Industry Technicians Certificate ASSET Nitrox Technician and Gas Blenders Certificate and have documented proof of at least six months full time (or the equivalent part time) experience in the maintenance and repair of diving equipment
- Hold at least three manufacturers equipment clinic Certificates (MFG house techs need only 1 Cert.).
- Have documented proof of at least 3 year's full time (or the equivalent part time) experience in the
 maintenance and repair of diving equipment, have completed a DITC Orientation & Assessment Course and
 hold at least three manufacturer's equipment clinic certificates.

Qualifications, Health and Safety Law and Insurance

Today more than at any other time in our industry's history, the experience and certification of dive centre operatives are being scrutinised. Although "on the job" training has been the norm for those who operate compressed gas systems and maintain equipment, today in response to a number of accidents and incidents the HSE, and insurance companies are beginning to question the competence of those who do not hold a formal qualification. A number of insurance companies have withdrawn from the market and at the same time premiums have risen due to perceived risks and the claims that underwriters face.

ASSET Technicians hold a highly regarded certificate, the training for which includes compressed air system management. In response to the needs of others who operate air and Nitrox systems ASSET has arranged for the Compressed Air Systems Management (CASM) and Nitrox Gas Blenders courses to be available together as a three-day course. Please see course dates and fees on following pages.

COMPRESSED AIR SYSTEMS MANAGEMENT COURSE – 2 DAYS

Aimed at:

- Diving industry or other industry employees who have responsibilities for using Compressors and gas blending.
- Diving industry or other industry employees who have responsibilities for routine 'user level maintenance' of compressors involved the use of high pressure breathing air cylinders.

User level servicing experience gained carried out on the popular Bauer Mariner 250 and Coltrisub MCH16 Divers breathing air compressors (and other models in the workshop where available)

The course covers general compressor maintenance, Air Bank operation, standards and relevant legislation.

Classroom & Practical user level maintenance carried out on compressors by students during this course includes:-

- · Compressor Theory of operation.
- Compressed air safety.
- Air bank use to 300Bars.
- Air filter changes,
- oil changes,
- Filter construction, chemicals, and re-packing techniques.
- Cylinder Identification for operator safety.
- Air purity Testing.

Course Pre requisites: None

Please note:

- 1. This course is included in the Dive Industry Technicians Course
- 2. This course is a pre requisite for attendance of Nitrox Gas Blender
- 3. Available in English and Thai Languages

Follow on Courses

NEW Advanced Compressor Strip Down and rebuild Course

• Diving industry or other industry employees who have responsibilities for Strip down and rebuild servicing of & divers breathing air compressors – See next page for more information

NEW Manufacturers Service Technician Certificate Course

New courses introduced to compliment the Compressed Air systems Operator Course for Dive Industry
personnel with responsibilities for day to day compressor operation who are required to have a Compressor
manufacturer's service technician certificate as part of their qualifications. Contact us for more information.



ADVANCED COMPRESSOR STRIP DOWN & REBUILD

5 DAYS *NEW*

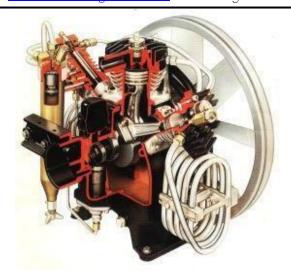
Aimed at:

 Diving industry or other industry employees who have responsibilities for Servicing & Repairing high pressure divers breathing air compressors to international standards. Choose to strip either a Bauer Mariner 250 or Coltrisub MCH16

The course covers general compressor and filter system maintenance, Air Bank operation, standards and relevant legislation as per the formal requirements of the Compressed Air Systems Operator Course.

Compressor Theory Session

- · Legal requirements & regulations
- Operator Instructions
- · Air facts and pumping rates
- Single stage compression disadvantages
- Multi stage compression
- Compressor Efficiency
- · Determining Compressor size requirements
- 3 stage High Pressure compressor essential system parts.
- Water separator & filtration system
- Filter composition chemicals used
- Air Quality Measurements EN12021
- Air Quality test Methods
- Lubrication methods and oil types
- Explosion hazards,
- Compressor use essential operator tasks
- Compressor use essential maintenance tasks
- Air bank usage
- V-belt adjustment
- · Pulley wheel alignment
- 3 phase electricity supply fundamentals
- 3-phase Star-Delta Starter fundamentals
- 3-phase motor protection systems
- EN12021 Filtration System Design & PMV Dependency
- Water content of air at different temperatures
- · Predicting Molecular sieve lifetime
- Predicting Activated Carbon lifetime
- Hopcalite requirements for carbon monoxide filtering
- Compressor and air storage systems horror stories, photo examples.
- · Compressor Servicing Manuals usage
- Spare parts ordering
- Manufacturers product reviews



Workshop Session

- · Remove and replace protective guards
- Remove and replace intercooler pipes
- Remove and replace cylinder heads
- Remove and replace cylinder barrels
- Examine cylinder barrels for wear
- Examine bearings for wear.
- · Strip down and adjust safety valves
- Strip down and rebuild final Bauer p21 safety valve
- Strip down and adjust PMV
- Strip down and service Interstage condensate trap replace filter
- Strip down and repack P21 filter Cartridge
- Adjust high pressure Oil Pump setting of Bauer final stage lubrication system.
- Setup and use of Bauer B-timer Automatic filter monitor
- Use of interstage pressure gauges for fault finding.
- Test compressor to 330bars to confirm integrity and lack of leaks
- Power consumption measurement use of Voltmeter & clip on ammeter.
- Rpm measurement methods
- Heat measurement of heads and intercooler functionality checks
- 3-phase wiring basics Changing rotation direction of 3-phase electric motor
- 3-phase star-delta starter / 6 wire 3-phase motor basics. Adjusting Star-delta switch time.
- Petrol engine rpm regulator adjustment for correct rpm
- Alignment of drive motor and fan belt adjustment
- Pumping efficiency tests
- Compressor Log sheets use
- Introduction of faults to the compressor and technician booby traps
- EN12021 Air purity testing preparation and test workshop following rebuild

Course Pre requisites: None

HASKEL OXYGEN BOOSTER PUMP

STRIP DOWN REBUILD

4 DAYS *NEW*



Aimed at:

 Diving industry or other industry employees who have responsibilities for Using, Servicing or Repairing Haskel Oxygen Booster pumps for the pumping of 100% pure oxygen to 207bars/3,000psi

Haskel Oxygen Booster Pump Academics (day 1)

- Basic operating principals.
- Types of Booster pumps.
- Operator Instructions for safe usage.
- Air facts drive issues and safe pumping rates for 100% oxygen usage.
- Explosion hazards.
- Single stage Haskel pumps advantages and disadvantages.
- Double stage Haskel pumps advantages and disadvantages.
- Choice of pumping ratio efficiency versus Bank gas usage.
- Drive gas requirements the need for large LP compressors.
- Dry lubrication engineering separation of 'dirty' LP drive gas and pumped HP oxygen.
- Oxygen Service materials and engineering used in the Haskel pump.
- Freezing issues and prevention when operating the unit at low temperatures.
- · Calculation of stall pressures.
- Understanding shuttle valve operation. Remote start stop features. Servicing issues.
- · Spare parts ordering.
- Manufacturer's product reviews.
- THEORY EXAM.

Workshop session (day 1)

- Operators Instructions for safe usage
- Hands on user servicing and run up tests. (all models)
- Pump / 'jam' an oxygen cylinder to 207bars/3,000psi
- Using Haskel double action 26968 block and SITEC GBT15/45 units – differences.
- Scavenging Oxygen Booster pumps versus 'direct connect' pumps. Practical requirements

Workshop Strip/rebuild session days 2, 3, 4

- Remove and replace low pressure drive system.
 Clean and re-assemble cyclone/water trap debris filter.
- Remove and replace High Pressure Oxygen input and output pipework.
- Remove and replace Plenum intercooler and associated Joule-Thompson cooling pipework.
- Remove and replace cylinder heads.
- Remove and replace cylinder barrels.
- Remove and replace barrel Joule-Thompson cooling jackets.
- Examine cylinder barrels for damage, wear and Oxygen cleanliness.
- Examine Air drive barrel and shuttle valve components for wear.
- Strip down and re-assemble all one way poppet valves in the cylinder heads.
- Strip down and replace both piston head seal packs.
- Strip down and replace piston thrust rod/air drive seal packs.
- Strip down and service end of travel sense valves.
- Check unit functionality at 25 psi drive pressure
- Proof Test booster pump to 225 bars/3,250psi 100% Oxygen to confirm oxygen safety valve functionality and oxygen cleanliness.

Key Benefits

- ASSET/IDEST approved Haskel Oxygen Booster Pump Maintenance Certification establishing the legal competent person status of the technician to work on these system.
- All student training Manuals used during the course + online access to the ScubaEngineer.com technician database.
- All spare parts & consumables used during the course.
- Free Tea/Coffee and high speed Wi-Fi internet access at the training centre.

Pre-requisites:

 Applicant must show proof of Oxygen service technician training (Any agency accepted)

GAUGE CALIBRATION COURSE – 1 DAY *NEW*



Aimed at:

 Commercial Diving industry or other industrial employees who have responsibilities for the calibration and adjustment of Pressure gauges, Pneumo gauges, Divers SPG, PID.

A new course introduced by popular demand from DITC students to teach the skills necessary to carry out the formal calibration of the wide range of pressure and depth gauges used in commercial diving operations.

There are many hundreds of dedicated DSV & OSV mounted containerized mobile dive systems world-wide. The larger systems utilize literally hundreds of pressure gauges that all come under strict IMCA scheduled maintenance requirements; much of the Dive Technicians time is spent carrying out this work and producing the documentation for entering in to the system PMS/CMMS.

The course covers all the major gauge types used in dive systems, together with a practical work shop session carrying out the traceable calibration of a range of popular gauge types. Use of the pressure pot for diver worn depth gauges together with a high pressure connector workshop to gain familiarity with the many methods of joining the pressure gauge to the dive spread or calibration system are also covered.

Gauge Calibration Course (1 day)

- · Introduction to pressure measurement
- The dead weight gauge
- · Pressure from liquid columns
- · Pressure gauge types
- Common Connector types
- Calibration Principles
- Accuracy of gauge types
- IMCA requirements and Calibration certificates
- THEORY EXAM.

Workshop Session

- Connection types, adapters, mating methods
- Producing calibration pressures.
- Divers SPG calibration check
- Divers depth gauge in the pressure pot
- Pneumo gauges & Magnehic
- PID checks
- · Calibration Certificates filling out
- Safety issues and PPE
- Includes:
- ASSET/IDEST approved Pressure Gauge Calibration Certification establishing the legal competent person status of the technician to work on these items.
- All student training Manuals used during the course + online access to the ScubaEngineer.com technician database.
- All spare parts & consumables used during the course.
- Free Tea/Coffee and high speed Wi-Fi internet access at the training center.

Pre-requisites: None

Key Benefits: Provides formal competent person training of the Dive Technician in Pressure Gauge calibration techniques.

Yanmar Diesel Engine

Strip down rebuild course - 4 Days *NEW*



Learn how to use & service the Yanmar L60AE-D diesel engine.

Then strip it down, inspect, rebuild, adjust and test it to manufacturer specifications

This new course introduced by popular demand from DITC students to teach the skills necessary to service and repair the small diesel engines that power many of the portable compressors used worldwide, The Yanmar LA60AE-D engine is used to power the USA GSA Bauer C-D/DV/NAVY unit. There are more than 50,000 high pressure breathing air compressors used worldwide in Navy, Army Air force, fire departments, rescue teams, coastguards, disaster response teams, commercial and recreational diving. Many of these are portable units powered by small diesel engines. This large installed user base generates an ongoing requirement for technicians with the specialist skills to service this equipment.

Diesel Engine Academic Development Work (day 1)

Course (1 day)

- Basic 4 stroke engine principles
- History of diesel engine development

- Adiabatic compression ignition principles
- Fuel injectors principals of operation
- Fuel pump principals of operation
- Oil pumps principals of operation
- Spare part ordering
- Management of in house spares inventory systems.
- Manufacturer's product reviews.
- Safety issues diesel injection, run away, starting injuries, exhaust gases, PPE
- THEORY EXAM.

Diesel engine workshop sessions (days 2, 3, 4)

 Hands on user strip down, inspection, cleaning, rebuild session – see course flier for more details

Includes:

- Small Diesel Engine technician training certificate establishing the legal competent person status of the technician to work on diesel engines of this type
- All student training Manuals used during the course + online access to the ScubaEngineer.com technician database.

Pre-requisites: None

Key Benefits

- Enables the diesel owner to carry out timely repair / maintenance to their own diesel engine when operating in remote locations.
- Prevents costly damage to the diesel engine and operator injury due to lack of training or proper maintenance

CMMS Course - 1 day

Computer Maintenance Management Systems



Understanding the critical attributes that underline the creation, database setup, and IMCA Dive Technician interaction with a modern Computerized Maintenance Management System (CMMS)

The complexity and ongoing nature of Dive Systems maintenance in accordance with IMCA standards goes way beyond that which can be easily accomplished by entirely paperwork methods. Offshore Dive vessel operators have been slow to comprehend the time consuming nature of the Dive tech's CMMS administration and data entry duties, which for a complex sat-spread requires a dedicated dive tech just to drive the CMMS, and at least one other dive tech to carry out the many maintenance tasks. Periodic IMCA D023,24,37 Dive Systems maintenance in accordance with D018 audit recommendations is made much easier using a combined cloud based CMMS with local hard copy records(in case of internet failure). In this way, much of the auditors work can be carried out onshore.

This one day familiarisation course introduces the technician to the structure of a modern cloud based CMMS and how it is setup to operate within an IMCA environment. A classroom session gives the student live practice with a Dive Spread CMMS, creating work orders, entering spare parts, uploading job completion paperwork, Calibration certificates.

Pre-requisites: None

INTERSPIRO AGA/DIVATOR FULL FACE MASK – 1 day



Full strip down, inspection, rebuild, testing of the AGA Positive Pressure FFM.

Correct setup and adjustment confirmed by student practice using both the new field kit and desktop 'inflatable head' test system

Pre-requisites: DITC

Emergency Life Support Apparatus ELSA, Helicopter Emergency Egress Device HEED course 2 days



Full strip down, inspection, rebuild, testing and adjustment of the ELSA, HEED and Aqualung SEA man portable escape devices.

Pre-requisites: None

Dive Industry Technician Internship Training Packages



All the Dive Industry Technician Courses featured on this web site are run at Easytek Co. Ltd., a full service diver's life support equipment company based in Pattaya, Thailand.

Ongoing real world repair of scuba regulators, high pressure breathing air compressors,
Visual/Hydrostatic/NDT inspection of scuba cylinders, storage banks, together with the provision of air,
nitrox and Trimix blends for divers by our in-house staff, has provided a back ground to the 1,400 technicians
who have completed training here at our facilities over the last 15 years.

The DITC internship course packages were put together at the request of visiting technician trainees who wanted more extensive experience and practice in a real world environment than could be achieved during our usual 1-2 week training programs and is structured to deal with the varied back grounds and needs of Dive Technician trainees who intend to work in the Commercial Diving, Military Diving and Scuba diving industries.

The internship training course packages puts the dive technician through not only academic and workshop training courses but also permits the technician to gain experience working with and setting up the background logistics, parts ordering, stocking and technical literature systems that are essential in supporting the dive technician activity, and gain an insight into the business aspects of running a repair workshop. The internship candidate will also assist us under direct supervision in the repair of any client's equipment and accompany us on any visits to service or repair client's equipment on site – in such a way, the internship student is given the opportunity to gain as broad a practical experience as possible.

Additionally, many students have requested that we provide a common tool set used for servicing all scuba & bailout regulator types together with optional manufacturer specific custom tool packages necessary to support the Dive Technicians work in a format that can be easily carried within standard airline weight limits. The student can chose which manufacturer custom tool package(s) he/she wants.

What's included in a Dive Industry Technician Internship training package?

- Essential training courses see package descriptions below for what is included.
- **Bronze** For dive technicians supporting small dive centre operations
- Silver For dive technicians supporting medium sized dive centres with duties involving compressor repair.
- **Gold** For dive technicians supporting larger more complex dive operations that support technical diving, compressor repair, oxygen and helium mixed gas fills.
- **Platinum** For dive technicians supporting the full range of self-contained diver's life support equipment used in both civilian and commercial dive operations.
- Attend Easytek Co on daily basis to assist with dive equipment maintenance tasks
- A standard dive technician tool kit plus up to 3 manufacturer custom tool kits depending on internship package chosen.
- 1-3 months standard air con accommodation at a nearby hotel or guest house.
- Assistance and sponsorship given where necessary for students wishing to obtain a long term educational visa in Thailand.
- Taxi collection/return from Bangkok Airport.
- Flexibility to customize each training package in accordance with student needs.

Read on to select the Dive technician Internship package suitable to meet your needs...

<u>Dive Technician Internship 'Bronze' package 1 month</u>

Bronze package. 14 days training. 28 days total USD5,360
Includes Standard Dive technician tool kit

- Dive Industry Technician Course (14 days package)
 - o Including DITC (10 days)
 - Oxygen Technician/Gas blender(2days)
 - Cylinder Visual/Hydrostatic/NDT Inspection(2days)
- Standard Dive Technician tool kit
 - o Standard quality IP gauge & magnehic
- 14 days of training courses
- 14 days internship training
- 28 days air con room accommodation
- Airport taxi transfers

<u>Dive Technician Internship 'Silver' package</u> 2 months

Silver package. 20 days training. 56 days total USD9,467
Includes Standard Dive technician tool kit
Includes 1 scuba manufacturer custom tool kit

- Dive Industry Technician Course (14 days package)
 - o Including DITC (10 days)
 - o Oxygen Technician/Gas blender
 - Cylinder Visual/Hydrostatic/NDT Inspection
- Advanced Compressor Strip down rebuild course (5 days)
- Gauge calibration course
- 36 days internship training
- Standard Dive Technician tool kit
 - Standard quality IP gauge & magnehic
 - 1 manufacturer custom tool kit
- 20 days of training courses
- 36 days internship training
- 56 days air con room accommodation
- Airport taxi transfers

Dive Technician Internship 'Gold' package 2 months Gold package. 24 days training. 56 days total USD12,809 Includes deluxe Dive technician tool kit Includes 2 scuba manufacturer custom tool kits

- Dive Industry Technician Course (14 days package)
 - o Including DITC (10 days)
 - o Oxygen Technician/Gas blender
 - Cylinder Visual/Hydrostatic/NDT Inspection
- Advanced Compressor Strip down rebuild course (5 days)
- Haskel Oxygen Booster pump strip down rebuild course (4 days)
- Gauge calibration course
- High Quality Dive Technician tool kit
 - o High quality IP gauge & magnehelic in transport case
 - 2 manufacturers custom tool kits
- 24 days of training courses
- 32 days internship training
- 56 days air con room accommodation
- Airport taxi transfers

Dive Technician Internship 'Platinum' package 3 months 'For professional dive technicians' Platinum package. 36 days training. 84 days total USD19,308 Includes Standard Dive technician tool kit Includes 3 scuba manufacturer custom tool kits

- Dive Industry Technician Course (14 days package)
 - Including DITC (10 days)
 - o Oxygen Technician/Gas blender
 - Cylinder Visual/Hydrostatic/NDT Inspection
- Advanced Compressor Strip down rebuild course (5 days)
- Haskel Oxygen Booster pump strip down rebuild course (4 days)
- Gauge calibration course
- AGA Full Face mask strip down rebuild course
- ELSA HEED strip down rebuild
- Composite Cylinder Inspection
- CMMS systems familiarity for use in IMCA environment.
- Small Diesel engine strip down rebuild course
- Small petrol engine strip down rebuild course
- High Quality Dive Technician tool kit
 - o High quality IP gauge & magnehelic in transport case
 - 3 manufacturers custom tool kits
- 36 days of training courses
- 48 days internship training
- 84 days air con room accommodation
- Airport taxi transfers

DIVE INDUSTRY TECHNICIAN COURSE SCHEDULE DATES 2020

Rev. V1.21

Nev. VI.ZI													
COURSE TITLE	Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DITC, NITROX G/B & TECH & CYL PT2/HYDRO	14	13-26	10-23	17-30	14-27	12-25	16-29	14-27	11-24	15-28	13-26	10-23	15-30
DIVE INDUSTRY TECHNICIANS COURSE (DITC)	10	13-22	10-19	17-26	14-23	12-21	16-25	14-23	11-20	15-24	13-22	10-19	15-24
CYLINDER TESTING TECH COURSE PT1&2 VISUAL, HYDROSTATIC & NDT	4	21-26	18-23	25-30	22-27	20-25	24-29	22-27	19-24	23-28	21-26	18-23	23-30
ADVANCED COMPRESSOR STRIP DOWN & REBUILD	5	6-10	3-7	10-14	7-11	5-9	9-13	7-11	4-8	8-12	6-10	3-7	8-12
OXYGEN/NITROX/TRIMIX TECHNICIAN BLENDER	2	23-24	20-21	27-28	24-25	22-23	26-27	24-25	21-22	25-26	23-24	20-21	25-26
CYLINDER TESTING PT1/VISUAL	2	21-22	18-19	25-26	22-23	20-21	24-25	22-23	19-20	23-24	21-22	18-19	23-24
CYLINDER TEST PT2/HYDROTEST	2	25-26	22-23	29-30	26-27	24-25	28-29	26-27	23-24	27-28	25-26	22-23	29-30
COMPOSITE CYLINDER TESTING PT3	1	27	24	31	28	26	30	28	25	29	27	24	31
GAUGE CALIBRATION COURSE	1	ONREQ											
COMPRESSED AIR SYSTEMS MANAGEMENT (CASM)	2	19-20	16-17	23-24	20-21	18-19	22-23	20-21	17-18	21-22	19-20	16-17	21-22
HASKEL OXYGEN BOOSTER STRIP DOWN / REBUILD	4	ONREQ											
YANMAR DIESEL OR HONDA PETROL ENGINE STRIP DOWN / REBUILD	4	ONREQ											
HEED, ELSA SERVICING	2	ONREQ											
CMMS FAMILIARITY FOR IMCA	1	ONREQ											
BAUER FACTORY TECHNICIAN COURSE	4	20-23	-	16-19	-	18-21	-	20-23	-	14-17	-	-	14-17
ADVANCED TECHNICIAN	3	ONREQ											

HOLIDAYS December 25, 26, & 1ST January. BKK= Bangkok, SNG=Singapore, PM= evening, ONREQ = dates to suit

DIVE INDUSTRY TECHNICIAN COURSE SCHEDULE DATES 2021

Rev. V1.22

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COURSE TITLE	Days	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
DITC, NITROX G/B & TECH & CYL PT2/HYDRO	14	11-24	8-21	8-21	12-25	10-23	14-27	12-25	16-29	13-26	11-24	15-28	13-27
DIVE INDUSTRY TECHNICIANS COURSE (DITC)	10	11-20	8-17	8-17	12-21	10-19	14-23	12-21	16-25	13-22	11-20	15-24	13-22
CYLINDER TESTING TECH COURSE PT1&2 VISUAL, HYDROSTATIC & NDT	4	19-24	16-21	16-21	20-25	18-23	22-27	20-25	24-29	21-26	19-24	23-28	21-27
ADVANCED COMPRESSOR STRIP DOWN & REBUILD	5	4-8	1-5	1-5	5-9	3-7	7-11	5-9	9-13	6-10	4-8	8-12	6-10
OXYGEN/NITROX/TRIMIX TECHNICIAN BLENDER	2	21-22	18-19	18-19	22-23	20-21	24-25	22-23	26-27	23-24	21-22	25-26	23-24
CYLINDER TESTING PT1/VISUAL	2	19-20	16-17	16-17	20-21	18-19	22-23	20-21	24-25	21-22	19-20	23-24	21-22
CYLINDER TEST PT2/HYDROTEST	2	23-24	20-21	20-21	24-25	22-23	26-27	24-25	28-29	25-26	23-24	27-28	26-27
COMPOSITE CYLINDER TESTING PT3	1	25	22	22	26	24	28	26	30	27	25	29	28
GAUGE CALIBRATION COURSE	1	ONREQ											
COMPRESSED AIR SYSTEMS MANAGEMENT (CASM)	2	17-18	14-15	14-15	18-19	16-17	20-21	18-19	22-23	19-20	17-18	21-22	19-20
HASKEL OXYGEN BOOSTER STRIP DOWN / REBUILD	4	26-29	23-26	23-26	27-30	25-28	1-4	27-30	2-5	1-4	26-29	1-4	1-4
YANMAR DIESEL OR HONDA PETROL ENGINE STRIP DOWN / REBUILD	4	ONREQ											
HEED, ELSA SERVICING	2	ONREQ											
CMMS FAMILIARITY FOR IMCA	11	ONREQ											
BAUER FACTORY TECHNICIAN COURSE	4	TBA											
ADVANCED TECHNICIAN	3	ONREQ											

KEY: HOLIDAYS 25 DEC § 1STJAN. BKK= Bangkok, SNG=Singapore, PM= evening, ONREQ = dates to suit, TBA=To Be Announced

Easytek Engineering Services Co Ltd.,

62/277-278 Moo 12, Thepprasit Soi 6, Nongprue, Banglamung, Chonburi 20150, Thailand Tel/Mob/SMS/MMS +66-81-652-3197, Office +66-38-197429

Email to: - web: - www.scubaengineer.com web: - www.scubaengineer.com

COURSE FEES (US\$)

COURSE TITLE	DAYS	FEE
DITC, GAS BLENDER/OXYGEN TECHNICIAN, INCL CYLINDER TESTING CPL1(VIP) & CPL2(HYDRO/NDT)	14	US\$2,495
DIVE INDUSTRY TECHNICIANS COURSE (DITC) INCL CYL TEST CPL1(VIP)	10	US\$1,515
* New * ADVANCED COMPRESSOR STRIP DOWN & REBUILD COURSE Chose from popular Bauer, Coltrisub models. *Includes 5 nights' Accommodation	5	US\$1345
CYLINDER TESTING TECHNICIAN COMBINED COURSE CPL1(VIP) & PT2(HYDRO/NDT)	4	US\$950
* New * HASKEL AGT 15/30 OXYGEN BOOSTER PUMP STRIP DOWN/REBUILD	4	US\$1345
COMPOSITE CYLINDER TESTING COURSE CPL3	1	USD365
CYLINDER TESTING PT 2 (HYDRO/NDT) ONLY	2	US\$495
ADVANCED TECHNICIANS COURSE	3	US\$745
COMPRESSED AIR SYSTEMS MANAGEMENT COURSE (CASM)	2	US\$495
OXYGEN TECHNICIAN & GAS BLENDER-OXYGEN/NITROX/TRIMIX 'OXYTEC'	2	US\$495
GAUGE CALIBRATION COURSE	1	US\$285
YANMAR DIESEL ENGINE STRIP DOWN & REBUILD COURSE	4	US\$950
HONDA GX SERIES PETROL ENGINE STRIP DOWN & REBUILD COURSE	4	US\$950
* New * INTERSPIRO AGA FULL FACE MASK SERVICING COURSE	1	US\$285
ELSA, HEED, SPARE AIR STRIP DOWN REBUILD COURSE	2	US\$495
* New * CMMS / PMS FAMILIARITY COURSE FOR IMCA DIVE TECHNICIANS	1	US\$285
*New * BAUER COMPRESSOR MANUFACTURER CERTIFICATE (Combined level 1 & 2) Course *Includes 4 nights' Accommodation	4	US\$1345
* New * DIVE INDUSTRY TECHNICIAN 1-3 MONTHS INTERNSHIP - AN ALL INCLUSIVE PACKAGE THAT INCLUDES HOTEL ACCOMODATION, VISA ASSISTANCE, CUSTOM TOOL KIT(S))	30-90	CUSTOM PACKAGE PRICE QUOTE

All courses cover the latest changes for American DOT/CGA tank testing plus the latest European 'EN' Cylinder Testing Standards EN 1802 & EN 1968

*** SPECIAL PACKAGE PRICE OFFER FOR MULTIPLE CLIENTS ***

DITC & OXYTEC + CYLINDER TESTING PT2 (14 DAYS) FOR 4 OR MORE TECHNICIANS)

Only US\$2,245 - Full payment on booking (normal price USD2,495 / PAX) - Scheduled Courses Only

*Special Cross-over price 20% discount for Gas Blender/Oxygen technicians holding other agency certifications

HOTEL ACCOMODATION



Easytek Engineering Services Co. Ltd., 62/277-278 Moo 12, Soi Thepprasit 6, Thepprasit Rd. Nongprue, Banglamung, Chonburi 20150, Thailand

Tel/Fax: +66-38-197-429, Mob: +66-81-652-3197

Email: scubaengineer@gmail.com Website www.scubaengineer.com

Head office: Thai Tax ID 0845541001270, GPS Location: 100°53'4.12"E, 12°54'30.02"N

Pattaya is renowned for low cost good quality air-conditioned Hotels. Most in the list are located within just a 5 minute taxi ride from the Engineering Center. The following list is intended as a guide to prices. Easytek Co Ltd can arrange Hotel bookings for you in advance should you require.



Onsite Student Air-Con Accommodation ... at Easytek Engineering Services Co.

Large Air/con double room US\$17/night **Book with your credit card**

Budget Hotels	Price guide/ı	<u>night</u>
Inter Place Pattaya	US\$30	walking distance
The Caddy Shack Hotel	US\$30	walking distance
Paragon Suites	US\$40	walking distance
Medium Range Hotels		
The Boat House Hotel	US\$50-75	Jomtien Beach Road, Restaurant & Wi-Fi.
Lotus House Hotel	US\$30-50	60 m from Jomtien Beach
Nirvana Boutique Suites	US\$50	100 m from Jomtien beach
Nova Platinum	US\$50	Close to Pattaya nightlife center. Nice Pool.
<u>Luxury Hotels</u>		
The Jomtien Palm Beach Hotel	US \$75 -\$150	5 min taxi ride
The Montien Hotel Pattaya	US \$100-\$750	15 min taxi ride
The Residents Suites	US \$75-\$150	5 min taxi ride
The Royal Cliff Resort	US \$150-\$5,000	10 mins in a pampered limousine/helicopter ride

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Email to: scubaengineer@gmail.com web1: - www.scubaengineer.com web2:- www.scubaspareparts.com

TERMS & CONDITIONS OF BUSINESS

- 1. **Reservations Policy**: Training course bookings requests will be confirmed only upon receipt of a completed booking form and payment of either the full fee if requested or the required non-refundable 30% deposit.
- 2. **Provisional Bookings Policy**: telephone/email bookings will be assumed to have been cancelled, if a booking form and 30% deposit are not received within 7 working days.
- 3. **Payments Policy:** Balance of course fees must be received no later than 21 days before the start of the course, failing which we reserve the right to treat the booking as cancelled.
- 4. Cancellations Method Policy: All Cancellations must be made in writing.
- 5. **Cancellations/No show Policy**: Any person(s) cancelling within 14 days of the course start date or who do not turn up are liable for the full course fees.
- 6. **Late cancellations Policy**: Where a student has cancelled a course within the above period, the course fee may be transferred to another date within one calendar year only if the vacant place on the original course can be filled and at the discretion of Easytek Co Ltd.,
- 7. **Punctuality Policy**: Check in times notified for each course must be adhered to, failure to do so might result in the student being unable to complete the course.
- 8. **Refund Policy 'Force-Majeure' Policy**: If weather, war, Industrial action or any other 'force-majeure' circumstances outside Easytek Co Ltd., control causes the course to be cancelled, delayed, cut short or changed, Easytek Co Ltd., will not be held liable for any consequential loss, damage or expense incurred by the student and any refund will be subject to deduction of reasonable expenses.
- 9. Refund Policy Other circumstances: In the event of staff sickness, equipment failure, insufficient students or any similar circumstances which make it necessary to cancel a course or event, the maximum possible notice will be given and the full moneys paid will be refunded. Easytek Engineering Services Co Ltd., will not be held responsible for any consequential expenses incurred by the student.
- 10. Pre-requisite information required Policy: It is the responsibility of the candidate to ensure that a copy of a valid certificate is supplied when requested as either a pre requisite of attendance or discount on a course. Failure to do so may result in the candidate being refused a place or discount. If a course is booked using an invalid certificate the candidate will be refused a place and the course fee will not be returned. At the discretion of Easytek Co Ltd., a place on another course more suitable course may be offered.
- 11. **Brochures, advertisements, web site information Policy**: Easytek Engineering Services Co Ltd., reserves the right to change these contents at any time.
- 12. **Pricing Policy**: prices are correct at time of print but may be subject to change at any time due to currency fluctuations. Please check before you book that the prices in your brochure are current and places are available.
- 13. **Commercial Co-operation from manufacturer's clarification**: The completion of any of the ASSET Approved STATS courses does not guarantee that the technician will be able to attend manufacturer's service courses or access spares. Each manufacturer has their own company policy and we have no control over their decision.
- 14. **Training Course certificate Issuance policy**: A completion of training course certificate is issued to all students who:-
 - Attend all scheduled training course days
 - Show competence in the workshop sessions
 - Achieve a minimum 80% pass of the exams that accompanies the training course(s).

Easytek Engineering Services Co Ltd., Thailand. www.scubaengineer.com Page:23 DITC TECHNICIAN TRAINING COURSES – FAX BOOKING FORM

Name						
Address						
Addiess						
	Post Code					
Tel. (H)	Mobile:					
Email:						
Course Title	<u>Da</u>	te range				
Dive Industry Technicians Course						
Gas Blenders/Oxygen Technicians						
Cylinder Testing Part 2						
Combined DITC, Nitrox & Cylinder Testing Pt 2 Courses (14 days)						
Cylinder Testing Course Pt1(Visual) & Pt2(Hydro/NDT)						
ACASM Advanced Compressor – Strip Down/Rebuild course						
CASM HP Breathing Air Compressor Operator Course						
HASKEL Oxygen Booster Pump – Strip Down/Rebuild Course						
Gauge Calibration Course						
AGA Full Face Mask – Strip Down/Rebuild Course						
HEED, ELSA, SPARE AIR – Strip Down/Rebuild Course						
CMMS Computer Maintenance Management System Course						
YANMAR Diesel Engine - Strip Down/Rebuild Course						
INTERNSHIP Bronze, Silver, Gold, Platinum (Please circle)						
Onsite air-con accommodation – USD17/night						
D (0(D))						
Date Of Birth ASSET Member N	10:					
Diving Qualification Occupation						
·						
Name Of Company (if working in dive industry)						
I have previously completed an IDEST course or a Dive Industry Technician certificate enclosed	ns Course – copy	of Tick				
certificate enclosed						
Training Materials & certification Fees						
Dive Industry Technicians Course DITC student study book	U	S\$75				
Nitrox student study book	U	S\$45				
Compressed Air Systems student study book (included in DITC student study book	ook) U	S\$45				
Cylinder Inspection student study book Pt1 (included in DITC handbook)	U	S\$45				
Advanced Cylinder Inspection student study book Pt2 (Metallurgy, Hydro, NDT)	U	S\$45				
DITC Candidates ASSET <i>Membership Fee</i> (required for all DITC candidates)	US	S\$100				
Advanced Cylinder Inspection Course ASSET <i>Membership</i> fee (only recompleting this course)	quired if U	S\$60				
Please note: full fee due 21 days before st	art of course					
Please make payment by 'Bank Transfer' to the	following Acc	ount				
Account Name:- Easytek Engineering Services Co Ltd	J					
Account Number:- 330-1-02956-9						
Bank Name: - Kasikorn Thai Bank, South Pattaya Branc	h, Pattaya, Tha	iland				
Swift Code:- KASITHBK						
Bookings are accepted subject to our terms & conditions of business						
Declaration: I have read & accept your terms & conditions of but in all activities entirely at my own rights.		pt that I take part				
Candidates sign:	Date					