



SET UP & TRAINING Modules

MODULE 1: CREW TOURIST SUBMARINE OPERATIONS- TWO SUBMARINE PILOT/INSTRUCTORS

To include:-

- ✓ Seamanship relating to submarine operations
- ✓ Basic submarines physics, Boyles Law, Buoyancy, HP gases & Effects
- ✓ Tourist submarine operations – general practices
- ✓ Submarine systems & their operation & interaction
- ✓ Diving & Surfacing Procedures
- ✓ Communication equipment operation & protocols
- ✓ Dive Logs & Reporting Procedures
- ✓ Passenger logistics & handling
- ✓ Submarine daily pre-dives checks
- ✓ Submarine daily post dive checks & charging procedures
- ✓ Co-pilot duties & skills
- ✓ Dive attendant duties & narration techniques
- ✓ Marine Biology specific to local site
- ✓ Surface controller duties and Communication protocols
- ✓ Piloting of the submarine – day time ops
- ✓ Co-pilot duties
- ✓ Surface Controller duties
- ✓ Transfer boat operations and duties
- ✓ Pilot Emergency procedures
- ✓ Surface Controller emergency procedures
- ✓ Co-Pilot emergency procedures
- ✓ Transfer boat emergency procedures
- ✓ Passenger interaction & handling techniques
- ✓ Submarine Towing techniques
- ✓ Act as examiner for submarine operations check out / certification dives
- ✓ Conduct Submarine Operations examinations and certification to USCG equivalent standard for day time diving.

(Expected duration 4 months)

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MODULE 2: OPERATIONAL SET UP

To include:-

- ✓ Advice & assistance with dive site selection & preparation
- ✓ Managing logistics
- ✓ Set up of maintenance facilities
- ✓ Obtaining operating licensing
- ✓ Liaison with classification bodies
- ✓ Set up of Ticketing & Check in
- ✓ Operational Crew Supply (concurrent with module 1).

To include:-

- ✓ One (1) Operations Manager to manage the early critical stages of your project set up & train a local staff member in all aspects of submarine operational management, until the local staff members reach an acceptable level of competency.
- ✓ One (2 optional) submarine pilot/instructors to operate the submarine & surface control during initial fare paid dives, whilst concurrently training local staff in to the various operational positions during & in-between working dives.
- ✓ One (1) Maintenance Supervisor to supervise maintenance & replenishment of submarine & support vessels, whilst concurrently training local staff in maintenance & replenishment procedures.

All training is to equivalent standard as required by USCG. The examination for submarine pilots used by the USCG was taken from the Submarine training examination that was written in 1987.

(Expected duration 4 months (concurrent with module 1))

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MODULE 3: NIGHT DIVING.

To include:-

- ✓ Training in night diving which differ considerably from day time diving
- ✓ Pilot training in night diving procedures
- ✓ Co-pilot training in night diving procedures
- ✓ Surface controller training in night diving procedures
- ✓ Passenger boat crew training in night diving procedures
- ✓ Emergency procedures
- ✓ Night time Passenger interaction & Handling Techniques
- ✓ Night time Marine Biology specific to local site

(Expected duration 1 month, consecutive with module 1)

MODULE 4: STANDBY / SHOW DIVER TRAINING.

To include:-

- ✓ Standby diver duties & procedures
- ✓ Equipment preparation & maintenance
- ✓ Hazards of diving in proximity with the submarine – Dos & Don'ts
- ✓ Show diving techniques
- ✓ Site preparation
- ✓ Fish feeding techniques
- ✓ Emergency procedures and emergency submarine surfacing procedures
- ✓ Passenger interaction & handling techniques
- ✓ Marine Biology

(Expected duration 1 month to begin as submarine diving begins)

Each trainee will receive a minimum of forty hours of hands on experience. The actual amount of training required to meet the required standard will vary from individual to individual. After the period of day diving training, there will be check out dives and written examinations for each job position.

Successful delegates shall be qualified and certified in their respective positions.

Should you opt for night diving, module 4 training can be undertaken; followed by further check out dives and qualifications.

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