

ADVANCED NAVIGATION

(Speciality advanced uw navigation)

Intention of this course

The Intention of this course is to offer sufficient knowledge to the diver during his dives with which he determines the location and course with the help of natural and technical aid and be able to find back safely to the dive's starting point.

Instruction by ProTec scuba instructor with speciality navigation.

Training environment

Any open water, safe for scuba diving.

Prerequisites

- A good diving skill (theory and sufficient practice) that should be proved to the instructor.
- A scuba diver 1* certification is enough as bevert.
- Minimum age is 15 years.

Accomplishment

To show the student the difference between UW and land in natural navigation and to point out the limits. To exercise the handling with compass in theory and practice. To set all the dives in small depth but with sufficient length. To exercise partially in poor visibility (the combination with speciality night diving is possible).

Theoretical lessons

Why navigation UW? The analysis of UW scenario

- Boat dive - to certainly find the way back to the boat, to recognize the starting location even when the boat is away (for example; changing the anchor's place).
- Shore dive, with successive UW valleys and heights or big passages with the same depth, so that the direction to the shore can not be clearly recognized at the bottom on the depth profile.

- Night diving, current diving, diving from rock coasts with few possibilities of getting in and out, to find the way back to the starting point.
- To find the objects, Wrecks, diving places, etc.

Natural Navigation:

- To find a suitable natural mark points, perniciousness of the natural navigation (confusion by similar objects).
- Artificial mark points, lamps, signal generator, etc.
- To include depth profiles.

Compass Navigation:

- Handling with the compass.
- Deviation, diversion.
- To specify the course, diving rectangle, triangle.
- Handling handicaps.
- Currents and drift off:
 - To recognize and evaluate the current.
 - Counter measures for course deviation

Practical training

Natural Navigation

- An instructor dives in advance, any z-line in small depth by moderate visibility. At the points where a course - change will be carried out, natural and not very remarkable objects should be available as mark points. The student remembers length/duration and the line of the track and chooses his own mark points and with their help finds his way back along the track. To be exercised many times with different ways.
- To use artificial mark points, to test aptitude

Compass Navigation

- To focus on a goal on surface, to dive UW a straight track by poor visibility.
- Rectangle and triangle diving.



INSTRUCTOR MANUAL DIVING PROGRAM

- Z-line diving, to note the course and length/duration on an UW board, to find also the mark points at change of course, the same way back.
- To navigate over around the big obstacles.
- Optional: To find out the effect of the current on the navigation with the compass.

Courseware

Visit ProTec members area for any material / price list.

- Checklist