

DEEP DIVER

(Speciality deep diving)

Intention of this course

The Intention of this course is to offer sufficient knowledge to the diver for safe deep diving to 40 msw.

Instruction by ProTec scuba instructor with speciality deep diving.

Training environment

Any open water, safe for scuba diving. Recommended are walls, drop off's or safety line to the bottom which should be not deeper than the max. diving limit.

No blue water diving

Prerequisites

- Advanced diving skills (theory and sufficient practice) that should be proved to the instructor.
- Scuba Diver 1* certification.
- Minimum age 16 years.

Accomplishment

- The ProTec instructor has to adjust the course exercises and progress to the local environment for safety.
- The student may advance to the next module only after successful conclusion of the previous part.
- The instructor has to watch the students all the time and take care of good buoyancy and signs of problems, specially rapture of the deep
- Starting from 25 to 30 msw, further approach to the max depth has to be done very carefully in small steps. Dispose to more than one dive when exercise range would be too much for the students.

Theoretical lessons

Repeat and check skills Scuba Diver 1 and more...

- Air consumption calculation
- Partial pressure
- N2-narcotics – impact and measure.
- Oxygen toxicities
- Decompression dives – deco stops

Overview

- Deep diving – what this means
- Problems especially when diving deep
- Measures and control

Stress

- Stress & Deep diving - effect and measures
- Causes
- Symptoms
- Panic
- Control

Equipment

- Standards and extended equipment
- Redundant (regulator,...)
- Regulator ice up - counter measure
- Check BCD ability and measures if negative buoyancy at great depths
- Protection against cold
- Reel & Buoy

The Dive

- Advanced dive planning – the dive plan
- Gather information

- Check possibility
- Set up your goal, how to approach
- Calculate facts
- Decompression
- Measures and emergency procedures
- Briefing (who, when, how – clear and brief)
- Closing discussion after the dive, debriefing
- Target / actual comparison
- Exchange of experiences
- Improvements

Practical training

Equipment

There is some additional equipment for deep diving:

- 1x15 Litre Cylinder or 1x18 Litre with second valve or double 10 L Tanks.
- 2 high quality regulators (should not ice up when used in cold water)
- 1x Octopus
- Primary Light + one position light - if bad or less visibility
- Substantial protection against cold (dry suit if less than 10°Celsius)
- UW Executive Slate
- All parts of the equipment – even the tank valves - have to be used UW by the diver without help.

Generally

- Maximal depth 40 msw
- Maximal 5 minutes deco steps allowed. Breathing gas is air.
- The buoyancy may never become negative while deep diving. Keep it always neutral. No "fall down" to the depth.

Quality assurance

- Best buoyancy – sediment stir up or uncontrolled contact with the environment may not happen.
- The students have to act always with caution, full controlled, without any sign of stress or N2- narcosis.

- The student may advance to the next module only after successful conclusion of the previous part.
- When negative exercise results, the diver has to be sent to the surface (guided) or break off the whole dive.
- Never cause a real emergency situation for exercise. Just simulate. (As never really close tank valves at greater depth – about more than 20 msw).
- Never simulate emergency exercises without agreement before (briefing).

Courseware

Visit ProTec members area for any material / price list.

- Checklist