

NITROX DIVER 2

(Advanced Nitrox Diver, technical Nitrox use)

Intention of this course

The Intention of this course is to dive safely with nitrox (EANx 22-99%) as inhaled gas by means of professional education and equipment so that the diver is able to tap the full potential of the advantages of nitrox with regard to normal compressed air. Further topics in the program are deco dives with nitrox and gas change UW. This course exceeds in sport-diving area what is known as “recreational diving”.

Nitrox Diver 2 course substitutes Nitrox Diver 1 completely

Instruction by ProTec Nitrox 2 instructor.

Training environment

Any open water, safe for scuba diving.

Prerequisites

- A good diving knowledge (theory and sufficient practice), which should be proved to the instructor.
- Scuba diver 2* certification. The previous skills, such as the calculation of air consumption, detailed physics (partial pressure, gases), are to be refreshed by a previous course if necessary.
- Min. age 16 years.
- Nitrox diver 1 certification is not a prerequisite.

Accomplishment

- Nitrox course is above all a theoretical upgrade course for certificated scuba divers. All the diving skills (for compressed air diver) should already be existent in theory and practice (see prerequisites).
- The essence of this course is to use another gas instead air and know the related possibilities and danger.
- The result is a different behaviour UW based just on another dive time and dive depth handicaps and represents, after checking the theoretical knowledge, a pure discipline training.

- Exercise Nitrox gas analysis (important before each dive).
- Gas change UW from a Nitrox type to another has to be trained
- If this course is offered as an alternative to Nitrox diver 1, it must contain the whole Nitrox 2 knowledge and skills. If this course is done as an extension to Nitrox diver 1 course, it is ok to be accordingly adjusted.
- If there is no number (1 or 2) for Nitrox Diver provided for registration, certification will be issued for Nitrox Diver 1.

Theoretical lessons

- Proceed according to ProTec instructor diasheet set.
- The history of Nitrox, the usage possibilities.
- What is EANx, different air-EANx, limits.
- To plan and calculate min. 12 dives, also deco, with the different EANx mixtures (CNS, MOD...), for repetitive dives too.
- How to use high EAN mixtures (50-100% O₂).
- Oxygen compatible, Oxygen clean, Oxygen service.
- Overview at Nitrox mixing systems and methods.
- Course termination through Nitrox test questions. The ProTec Nitrox course question and answer set serve as minimum example. To alter or extend these questions is open to each ProTec instructor.

Practical training

- Each student has to analyze Nitrox using means of analysis equipment.
- Excercise Nitrox dives with gas change between minimum two mixtures.
- Simulated Nitrox deco – stops with gas change (aviod real forced deco stops).
- Excercise turn off tank valve - while using other cylinder - and re- activate & use it again.

Courseware

Visit ProTec members area for any material / price list.

- Checklist
- Examination questions
- Decompressiontable - Nitrox 32
- Decompressiontable - Nitrox 36