

PSAI Advanced Nitrox



The Professional Scuba Association International (PSAI) Advanced Nitrox Diver course is designed for those divers who wish to utilize enriched air (Nitrox) at oxygen concentrations up to and including 100% by volume (EAN22 to Oxygen) in their diving activities, including stage decompression procedures. It is highly recommended the Advanced Nitrox Diver candidates also take Narcosis Management Level III in order to expand and enhance their ERD knowledge, skills and training, and to prepare them for required deco stops. This PSAI program trains divers to a maximum depth of 45 meters (150 feet).

Prerequisites:

- The candidate shall be of legal age of majority at the time and location of course entry
- The candidate shall have graduated from a recognized Nitrox Diver course
- The PSAI Advanced Nitrox Diver candidate shall have a minimum of 50 logged open water dives of which at least 10 have been between 90 feet and 130 feet; these have to have been dives after being certified to these depths, not just logged

Overview:

1. Course Content: This course provides the necessary information for a PSAI Advanced Nitrox Diver to know the proper procedures to: Determine appropriate Nitrox gas for planned dives; Determine appropriate diving equipment for planned Nitrox dives; Plan dives based in established limits and cautions for Nitrox gases; Analyze and verify Nitrox gases for diving
2. Completion Requirements: The candidate(s) must: Attend all academic sessions; Correctly demonstrate proper calibration of an oxygen analyzer and then properly analyze the oxygen content of all cylinders (including air cylinders) used for requisite dives; Complete the PSAI Advanced Nitrox Diver written examination with a score of 80%. All questions correctly answered or remediated and explained; Conduct the open water dives with appropriate skill and attention to all dive parameters and requirements, including maximum operating depths and adherence to decompression stop depths.
3. Result: A diver that successfully completes this PSAI Advanced Nitrox Diver program will be qualified to: Plan and conduct dives with Nitrox mixtures up to and including 100% oxygen (EAN22 to Oxygen); Obtain appropriate Nitrox gases, up to 100% oxygen, for diving; Conduct Advanced Nitrox dives in environments and conditions that approximate those of training; Undertake stage decompression techniques.

Open Water Dives:

A minimum of four open water dives are required for the PSAI Advanced Nitrox Diver course.

- Dive 1 should be to 27 meters (90 feet)
- Dive 2 should be to 30 meters (100 feet)
- Dive 3 should be to 40 meters (130 feet)
- Dive 4 should be no deeper than 45 meters (150 feet)

No dive depth shall exceed 45 meters (150 feet). Total combined underwater run times shall be a minimum of 150 minutes.

Course Equipment Requirements:

- Cylinders with sufficient volume to complete course requirements; DIN valves are HIGHLY recommended, and both valves must be the same
- Oxygen clean stage cylinder with sufficient volume for dive plan
- Three regulators, one with a long hose minimum length 1.5 meters (5 feet) connected to primary second stage
- Pressure gauge x 2 (one for back gas and one for decompression gas). Three must be used if diving an independent twin cylinder configuration
- LP hoses for BCD inflation and dry suit if used
- BCD with sufficient lift (a minimum of 23 Kg or 50 lb) to adequately support the required dive equipment and raise a fellow diver in an emergency
- A redundant inflation device in the form of a double bladder BCD
- Back plate and harness, or other type of BCD; recommended to have at least one shoulder quick release clip
- Thermal protection suitable for dive environment
- Dive lights if required with a least one redundant
- Multi-gas dive computer plus redundant timing and depth device(s); If a computer is not used then backup slates and tables must be carried
- Mask plus redundant mask
- SMB/lift bag (orange)
- An additional SMB/lift bag (yellow) is highly recommended where conditions dictate the use of such (to alert surface team of an emergency)
- Reel, two recommended
- Fins
- Slate and pencil
- Cutting device

How can I get certified?

Contact Glenn Van Vliet at www.SnapperScuba.com or 850-217-0679. Glenn is a PADI DSAT Tec Deep and MSDT Instructor, PSAI Sport, Cave and Technical Instructor, and an EFR CPR, AED, and First Aid Instructor.