



NAUI TECHNICAL EANX

4 days

Costs include: Boat Trips, Gas mixes, Manuals
Extra costs: Equipment, Certification

OVERVIEW

This course is to provide the EANx certified diver with the skills and knowledge needed to minimize the risks of utilizing optimal breathing gas EANx mixtures* of 25% through 80% (oxygen) for dives to a depth of 150 fsw (46 msw) not requiring stage decompression. *(This course may be combined with the Decompression Techniques Diver Course. The resulting course would require ten dives for certification.)* *80% EANx used for decompression and 25% to 60% EANx used for bottom mix.

QUALIFICATIONS OF GRADUATES

Upon successful completion of this course, graduates are considered competent to utilize EANx mixtures 25% through 80% (oxygen) without direct supervision provided the diving activities and the areas dived approximate those of training.

WHO MAY TEACH

This course may be taught by active status NAUI Instructors who:

- are certified as NAUI Technical EANx Divers or its equivalent, and,
- have completed the NAUI Technical Diving Instructor application process and received written approval to teach this course from the NAUI Training Department.

RATIOS

Open water supervision

- A maximum of six students per active NAUI Instructor is allowed. Assistants with specific technical diving experience are strongly recommended but do not increase the student-to-instructor ratio.

PREREQUISITES FOR ENTERING THE COURSE

- Minimum age of 18.
- Minimum certification of NAUI EANx Diver and Deep Diver (or equivalent).
- Proof of 50 logged dives with 10 dives on EANx

COURSE POLICIES

- Classroom hours – twelve estimated
- Open water dives – four (No dives are to exceed 130 fsw (40 msw) until a student has satisfactorily demonstrated equipment configuration and management during open water assessment dive(s).
- Maximum training depths shall not exceed 150 fsw (46msw) or PO₂ of 1.5 ATA.

EQUIPMENT

Ocean Zone Divers, 67/19 Moo 10, Patak Rd, Tambon Chalong, 83130 Phuket Thailand
Tel: +66 (076) 381881 GSM: +66 (09) 6474707 Fax: +66 (076) 381881
www.oceanzonedivers.com email: info@oceanzonedivers.com

The following equipment is required for each student in addition to that required by “Policies Applying to All NAUI Diving Certification Courses – Equipment:”

- Depth gauge, compass and timing device and dive computer.
- Dive knife/tool, emergency signaling device, slate and pencil.
- Cylinders and regulator properly labeled and cleaned as required for EANx mixture plus a redundant breathing gas system with a separate submersible pressure gauge for each cylinder used and adequate gas supply for planned dives, considering reserves, gas supply loss scenarios and decompression obligation.
- Oxygen analyzer (may be provided or rented for use during the course).
- Use of two regulators and of either a Y-valve or dual valve manifold for each diver’s main gas supply is highly recommended for dives beyond 130 fsw (40 msw)

SKILL REQUIREMENTS

At least four dives are to be made using EANx, at least one of which is to be a repetitive dive. The students are to analyze their own breathing gas mixture and plan and correctly execute each dive. Dive planning shall include limits based on gas consumption, oxygen exposures and inert gas loading for each dive and breathing gas mixture. If simulated or actual planned decompression stops are intended because of a combined Technical EANx and Decompression Techniques Course on any dive, student divers must demonstrate use of an up line or lift bag and reel while performing simulated or actual stops. Student divers will participate in an emergency gas supply loss scenario at a depth not to exceed 60 fsw (18 msw), *i.e.*, switch to separate redundant system and ascend to the surface. Students shall participate in a diver rescue simulation to include management of a diver experiencing underwater convulsions.

ACADEMIC REQUIREMENTS

- **Applied Sciences** – This area is a review and continuation of the material covered in the NAUI Master Diver and EANx Diver Courses. Included are physics, physiology and medical aspects as applied to EANx diving with special emphasis on: advantages and limitations of high fractions of oxygen EANx mixtures, oxygen toxicity (whole body and central nervous system (CNS) otu’s/uptd’s), hypoxia, nitrogen narcosis, nitrogen perfusion and diffusion rates, tissue inert gas tension, inspired inert gas tension, equivalent narcosis depths (END), carbon dioxide toxicity, remediation of specific subject knowledge as needed. Also to be covered are best mix and maximum operating depth mixture computations, plus common mixing procedures, including partial pressure, continuous blending, denitrogenation/membrane, plus contingency planning, chamber locations, evacuation procedures, communication and emergency breathing gases.
- **Diving Equipment** – This area reviews divers’ equipment requirements for gas mixes containing up to 39% and up to 100% oxygen content.
- **Dive Tables** – This is to cover equivalent air depth calculations for use with any dive table and computer software-generated tables or EANx computer. Also to be covered are dive planning requirements and limitations of gas supply, *i.e.*, gas management planning, oxygen and nitrogen for a variety of dive scenarios.
- **Decompression** – This is to cover the advantages/disadvantages of utilizing EANx as decompression gas, *i.e.*, 39% to 100% oxygen for use as a decompression gas and of multiple gas switches.

EXAMINATIONS

See “Policies Applying to All Courses; Evaluation and Documentation.”