

Diving Knowledge Specialties

Enriched Air Nitrox (EAN) 32 and 40 (ISO 11107)

I. Intent

The SSI Enriched Air Nitrox programs provide students with basic knowledge and skills needed to safely dive using breathing gas with enriched gas mixtures.

There are two possible certifications for this program:

- Enriched Air Nitrox 32
- Enriched Air Nitrox 40 (ISO 11107)

Note | The Enriched Air Nitrox 32 certification qualifies the diver to use gas mixtures up to and including EAN32. The SSI Training Center that provides the diver's breathing gas is solely responsible for gas analysis.

II. Minimum Instructor Rating

An active status Enriched Air Nitrox Specialty Instructor may conduct the Enriched Air Nitrox specialty program.

III. Student Prerequisites

- Minimum age | 10 years old.

Have the following SSI certifications or equivalent from a recognized training agency:

- Referral Diver

Or

- Diving Knowledge specialty programs may be combined with an Open Water Diver program.

Note | SSI Referral Divers may enroll in SSI specialty programs and complete all academic and pool/confined water sessions. Open water training dives for all specialties cannot be combined with open water training dives for entry-level programs, and must be conducted after completion of all in-water training for the Open Water Diver program.

IV. Duration

- Recommended hours for completion | 3-6.

V. Minimum Equipment

- A complete Total Diving System as outlined in the General Training Standards.

a. Special Equipment

Each student must either own or have access to the special equipment required to complete the program skills. Examples include a dive light, compass, or delayed surface marker buoy. The necessary equipment depends on the specific dive being conducted. This ensures that students can safely perform all required skills and meet the program's performance standards.

VI. Depth Limitations

If in-water training is conducted:

- Maximum pool/confined water depth limit | 5 meters.
- Maximum open water depth limit | 30 meters.
- Maximum open water depth limit for 12- to 14-year-olds | 18 meters.
- Maximum open water depth limit for 10- and 11-year-olds | 12 meters.

VII. In-Water Ratios

15 years and older:

- The student-to-instructor ratio is 8:1.
- The ratio may increase to 10:2 with one (1) certified assistant.
- The ratio may increase to 12:3 with two (2) certified assistants.

12- through 14-years old:

- The student-to-Instructor ratio is 6:1.

10- and 11-years old:

- The student-to-instructor ratio is 4:1.
- No more than two (2) participants per instructor or certified assistant may be under the age of 12, and none of the remaining participants may be under the age of 15.

VIII. Proximity

- During in-water skill evaluations, the students must remain under direct supervision of the SSI Professional so that physical contact can be made at any time.

IX. Requirements For Completion

a. Enriched Air Nitrox 32

- Complete Academic Sessions 1-3 as outlined in the instructor manual for Enriched Air Nitrox.
- Complete the program's final exam.
- Prior to certification, the student must be certified as an SSI Open Water Diver or equivalent.

b. Enriched Air Nitrox 40

- Complete all academic sessions as outlined in the instructor manual for Enriched Air Nitrox.
- Complete the program's final exam.
- Complete the practical application session outlined in the instructor manual for Enriched Air Nitrox.
- Prior to certification, the student must be certified as an SSI Open Water Diver or equivalent.

X. Certification

- Upon completion of all academic requirements, the SSI Professional may issue the program's digital certification card.
- Certified SSI divers can dive with an equally- or more-qualified buddy in environments equivalent to their training and within the recommended depth limits of their certifications.
- Students younger than 15 years old will be certified as an SSI Junior Diver in the applicable program, and can dive under the direct supervision of a dive professional, or with a certified adult, in environments equivalent to their training and within the recommended depth limits.
- Certified Enriched Air Nitrox 32 divers must have the percent of oxygen in their breathing gas verified by a dive professional prior to every dive.

XI. Credit

- Students may earn either Enriched Air Nitrox certification in combination with the Open Water Diver certification by completing all the required academic and practical application sessions from the Enriched Air Nitrox program during their Open Water Diver training.
- Students may use nitrox during the in-water training portion of the Open Water Diver program once they have completed the academic and practical application sessions outlined in the instructor manual for Enriched Air Nitrox.
- The instructor who directly supervises the students during training must be an active status Enriched Air Nitrox Specialty Instructor.