

Standard 2.B.7 / BOD no 179 (11-22-2012)

CMAS Enriched Air Nitrox Diver

1. Aim of the training programme

1.1 This training programme aims at introducing Enriched Air Nitrox diving theory and techniques to either new entrants to the sport of recreational SCUBA diving or to certified CMAS divers, which will enable them to use EAN mixtures, with up to 40% oxygen during no-decompression stop diving activities, in a safe manner.

2. Classification

2.1 The CMAS Enriched Air Nitrox Diver Training Programme is classified as an entry level speciality diver training programme.

3. Instructor and Assistant Requirements

3.1 The CMAS Enriched Air Nitrox Diver Training Programme may be presented by any CMAS Instructor with a minimum of a CMAS One Star Instructor grading that complies with the requirements as prescribed by Clause 2.1.16 of the definitions in Chapter 1.

3.1.1 Instructor must be in active instructor status as required by the national federation

3.1.2 Must have proven ability and experience and have logged at least 20 Nitrox dives

3.2 The CMAS One Star Instructor may be assisted by a CMAS Dive Leader that complies with Clause 2.1.15 of the definitions Chapter 1.

4. Competencies of a certified CMAS **Enriched Air Nitrox** Diver

4.1 A CMAS Enriched Air Nitrox Diver shall be trained such that when assessed by a CMAS Instructor, he shall be deemed to have sufficient knowledge, skill and experience:

4.1.1 To plan, conduct, and log EAN open-water dives that do not require mandatory in-water, decompression stops, without the supervision of a CMAS Instructor or Dive Leader, when properly equipped with in-service oxygen clean Scuba and accompanied by another SCUBA diver of at least a CMAS One Star Diver level, provided the diving activities undertaken, the diving conditions and the diving area are similar, equal or better to those in which training was received; and

4.1.2 To procure EAN gas mixtures with 21% to 40% oxygen content, EAN equipment, and other services to engage in recreational EAN diving.

4.2 If already certified before attending the CMAS Enriched Air Nitrox Diver Training Programme, the parameters within which the CMAS Enriched Air Nitrox Diver is qualified to dive are those applicable to the other diver training certifications he already holds as well as the maximum operating depth of the Enriched Air Nitrox mixture being used during the dive.

5. Prerequisites for participation in the training programme

- 5.1 In order to gain access to the Enriched Air Nitrox Diver Training Programme, the participant shall:
 - 5.1.1 Be at least fourteen(14) years of age; there is no upper limit;
 - 5.1.2 Hold a CMAS One Star Diver or equivalent certification;
 - 5.1.3 Effectively demonstrate his basic watermanship ability by performing, to a CMAS Instructor, the prescribed physical conditioning and watermanship evaluation of the CMAS Federation;
 - 5.1.4 Complete the medical history/statement form required by the CMAS National Federation prior to participating in any in-water activities; and
 - 5.1.5 Sign the appropriate form(s) as required by the CMAS Federation acknowledging and assuming the risks of SCUBA diving prior to participating in any in-water activities. Parental or legal guardian signature is required on the appropriate form(s) when the applicant is a minor.
- 5.2 The training programme may be conducted in conjunction with a CMAS One Star Diver Training Programme in which case Clause 5.1.2 will not be applicable.

6. Requirements for certification

- 6.1 In order to be certified as a CMAS Enriched Air Nitrox Diver, the student shall:
 - 6.1.1 Comply with all the prerequisites for participation in the training programme as prescribed by Clause 5 of this Standard;
 - 6.1.2 Successfully complete the theoretical assessment as provided for in Clause 10.1 of this Standard; and
 - 6.1.3 Successfully complete the practical skills assessment as provided for in Clause 10.2 of this Standard.

7. Required theoretical knowledge and diving skills

- 7.1 The participant shall receive tuition in the theoretical knowledge and practical skills as prescribed in Standard 3.B.7 in Chapter 3.

8. Theoretical training parameters

- 8.1 The CMAS Instructor shall conform to the standard theoretical training parameters as prescribed in Clause 4.5 of Chapter 1.
- 8.2 In case the training programme comprises open water dives using EAN as breathing gas, the maximum limit for training dives shall not exceed an oxygen partial pressure of 1.4 bar.
- 8.3 All Scuba equipment shall be in oxygen Service, Dive Cylinder will correctly labelled and gas mixtures will be with +/- 1% of the planned dive gas

9. Practical training parameters

- 9.1 The CMAS Instructor shall conform to the standard practical training parameters as prescribed in Clause 4.6 of Chapter 1.
- 9.2 The CMAS Instructor shall have the use of a "Oxygen analyser" available in order to teach the participants how to analyse and label an Enriched Air Nitrox cylinder in the proper manner and cylinder marking labels for demonstration purposes.

10. Assessment

10.1 **Knowledge**

10.1.1 The participant shall demonstrate to the CMAS Instructor knowledge of EAN diving theory and techniques by taking and passing an oral and a practical examination, for example analysing breathing gas and calculation MOD and labelling cylinder contents. This examination shall test entry level EAN diving theory and techniques as prescribed in Standard 3.B.7 in Chapter 3.

10.2 **Practical skills**

10.2.1 The participant shall demonstrate to the CMAS Instructor his mastery of the EAN practical skills, as prescribed in Clause 2.1 of Standard 3.B.7 in Chapter 3, during a practical skills assessment session.

10.2.2 The participant shall demonstrate the correct use of the oxygen analyser and the correct procedure of labelling Nitrox dive cylinders.

11. Certification

11.1 Upon successful completion of the training programme the participant shall be awarded with a CMAS Enriched Air Nitrox Diver C-card.

11.2 In the event that the training programme is conducted in conjunction with a CMAS One Star Diver Training Programme the certification shall not be issued to the participant until such time that he has completed all the requirements for certification as prescribed by the CMAS One Star Diver Standard.