



CEN TC 329/WG 3

N 084

Date:

2000-09-20

<p>CEN TC 329/WG 3</p> <p>Title: "Tourism Services/ Recreational Diving Services"</p> <p>Convenor: Martin Denison ssi_austria@compuserve.com</p> <p>Secretariat: ON (Austria) peter.jonas@on-norm.at</p>	<p>Circulated to members for:</p> <p>x discussion at: 6th meeting of WG 3</p> <p>comments by:</p> <p>voting:</p> <p>information:</p>
--	---

Title: prEN 329.03.02-1 "Recreational Diving Services - Safety related minimum requirements for training of recreational scuba diving training staff – Part 1: assistant instructor"

Source: German CEN member DIN

Requested action: -

Distribution: WG 3 members



Draft

Assistant Instructor

Introduction

The European Standards relating to recreational diving services, have been prepared by CEN/TC 329/WG 3 "Recreational Diving Services", with the aim of establishing a code of safety practices and the provision of services. Therefore these standards define:

• necessary levels of experience and competency of scuba divers and scuba instructors

• safety practices and requirements for dive centres appropriate to the different diving levels.

These European Standards apply only to contractual training and certification.

In any case, they cannot substitute for nor impose upon legal requirements, the alteration of which is outside the competence of the CEN/CENELEC members.

The European Standard prEN 329.03.02 consists of the following parts:

• prEN 329.03.02-1, *Recreational diving services - Safety related minimum requirements for the training of recreational scuba diver training staff - Part 1: level 1 , assistant instructor*

• prEN 329.03.02-2, *Recreational diving services - Safety related minimum requirements for the training of recreational scuba diver training staff - Part 2: level 2 , scuba instructor*

The above mentioned European Standards represent a tool for comparison of existing (or future) qualifications within the diving staff of a diving center, association, club, etc. In no way do they represent a course programme nor do they imply that course programs and diving certifications issued by different nations or training organisations must necessarily correspond to these three levels.

1 Scope

This European Standard specifies safety related minimum competencies to be achieved in recreational scuba training at scuba diving staff - level 1 – assistant instructor.

This European Standard applies only to contractual training and certification in recreational scuba diving.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

prEN 329.03.01-1, *Recreational Diving Services - Safety related minimum requirements for the training of recreational scuba divers - Part 1 – Level 1*

prEN 329.03.01-2, *Recreational Diving Services - Safety related minimum requirements for the training of recreational scuba divers - Part 2 : Level 2*

prEN 329.03.01-3, *Recreational Diving Services - Safety related minimum requirements for the training of recreational scuba divers - Part 3: Level 3*

prEN 329.03.02-2, *Recreational Diving Services - Safety related minimum requirements for the training of scuba diving staff in recreational diving - Part 2: Scuba Instructor*

prEN 329.03.02-2, ...

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply:

3.1 scuba

Self-contained under-water breathing apparatus

3.2 training organisation

Entity providing recreational scuba diving training systems and certification

3.3 certification

Confirmation that a student has completed scuba diver training which fulfils all requirements according to this European Standard, as issued by training organisations

3.4 diving staff trainer

A qualified individual, sanctioned by a training organisation to teach, evaluate and certify scuba diving staff in defined topics

3.5 breathing gas

Appropriate mixture of oxygen and nitrogen

3.6 confined water

Swimming pool with a depth appropriate to the activity or body of water that offers similar conditions

3.7 open water

Body of water significantly larger than a swimming pool offering conditions typical of a natural body of water encountered in the region

3.8 diving equipment

Equipment consisting of the following items:

- ¾ fins,
- ¾ mask,
- ¾ snorkel,
- ¾ cylinder,
- ¾ demand regulator (regulator),
- ¾ alternative breathing gas system, which could range from a simple octopus system to a duplicate breathing system with a separate breathing gas supply,
- ¾ cylinder-support-system and buoyancy control device including (if appropriate) a quick release weight system,
- ¾ submersible pressure gauge (breathing gas pressure monitor),
- ¾ means to measure depth and time and to safely limit exposure to inert gas,
- ¾ diving suit (if appropriate)

NOTE Specific environments may require appropriate additional equipment (e.g. an underwater navigational aid, knife/cutting device).

3.9 procedures in out-of-breathing gas emergency situations

procedures allowing a scuba diver to ascend to the surface in the event of an out-of-air (breathing gas) situation such as emergency ascents, use of alternative breathing gas supply (own or partner's)

3.10 dive management

all actions and measures necessary to ensure safe conduct of recreational scuba diving activities, including:

- ¾ briefing
- ¾ planning
- ¾ conduct and control
- ¾ emergency procedures
- ¾ de-briefing

4 Competencies of a scuba assistant instructor

A scuba assistant instructor shall be qualified to plan, organize and conduct dives and lead other recreational scuba divers of all levels in open water.

A scuba assistant instructor according to this European standard is qualified to teach and to evaluate scuba divers of level 1 according to EN ... in **confined water**.

If accompanied by an scuba diving staff trainer, scuba assistant instructor may gain progressive experience in teaching and evaluating.

5 Prerequisites

In order to qualify for enrolment in a course leading to certification according to this European Standard the student shall meet the following prerequisites.

5.1 Age

Minimum age 18 years (legal majority).

5.2 Health requirements

Students shall be medically screened as suitable for recreational diving by means of a medical examination no older than one year.

5.3 Minimum diving experience

Students shall have met all requirements for a level 3 scuba diver according to prEN 329.03.01-3 plus/ including an experience of at least 100 open water dives in total. At least 20 of these dives shall have been completed after scuba diver level 3

6 Introductory information

The following information shall be made available to the students prior to, or during the first class meeting:

- ¾ prerequisites according to 5,
- ¾ limitations of eventual qualification,
- ¾ scope of course,
- ¾ course procedures,
- ¾ costs, insurance and contractual issues according to national regulations,
- ¾ equipment requirements,
- ¾ certification requirements according to 10,
- ¾ diving related legislation and legal requirements.

7 Required theoretical knowledge

Scuba diving staff level 1 shall demonstrate to a scuba diving staff trainer sufficient understanding and knowledge of the following topics:

- ¾ Responsibility of supervision, care and circumspection within diving activities. (*Aufsichtspflicht, Fürsorgepflicht, Sorgfaltspflicht*)
- ¾ Obligation and rights in assisting a diving instructor
- ¾ safety regulations for the work in scuba diving schools/ -bases / -clubs/ -associations
Operation, maintenance and simple repair activities of diving equipment and compressors
- ¾ Principles for the co-acting with legal authorities (e.g. Police, Customs, fire-brigade) and other administrations
- ¾ Appropriate knowledge in administration within a diving centre / club / association
- ¾ Appropriate knowledge in pedagogy, psychology and all diving related theoretical items (e.g. physics, medicine of diving, physiology)
 - ¾ to plan and execute dives in all typical conditions encountered in the local environment within the decompression safety
 - ¾ to plan for and respond to possible emergencies during such dives
- ¾ the capability to read navigational charts for diving purposes
- ¾ Appropriate knowledge in assisting a scuba diving instructor in teaching and evaluating.

8 Personal scuba skills

8.1 Scuba skills

The competence of scuba diving staff – level 1 in all scuba skills shall be suitable to cope with the most demanding operational factors of their region. Influencing factors may include the following:

- ¾ underwater visibility
- ¾ size and experience of the group
- ¾ equipment in use

- ¾ current surface conditions
- ¾ water temperature.

9 Leadership skills

The following skills shall be competently conducted in depth ranges and environmental conditions typical to those usually met in level 3 scuba diving activities and beyond.

9.1 Instructor assistance procedures

.....

- ¾ neutral buoyancy check
- ¾ escorting students on their way to the instructor or back to the shore
- ¾ checkdives with certified divers

.....

9.2 Diver rescue

Students shall complete scuba diving staff - level 1 training in scuba diver rescue skills. The student shall satisfactorily demonstrate diver rescue skills by completing at least one open water rescue.

Rescue skills shall include:

- ¾ recognition of emergency situations (e.g. loss of breathing gas supply, lack of response),
- ¾ controlled casualty recovery from depth,
- ¾ effective emergency surface actions,
- ¾ casualty recovery from the water,
- ¾ **appropriate first aid and** emergency situation management including co-ordination with emergency services.

9.3 First aid

The candidate shall complete a course/courses in First-Aid and Cardio Pulmonary Resuscitation and have a valid qualification or certificate.

10 Certification

10.1 Knowledge

The student shall demonstrate mastery of the knowledge of scuba diving to a scuba diving staff trainer by passing an examination (see Annex for an explanatory example). This examination shall test theoretical knowledge according to 7.

Mastery of a theory topic is defined as being able to demonstrate a detailed understanding of the causes and effects related to each item and further to demonstrate a complete understanding of all aspects of such topics that are relevant to the conduct of the diving activities as addressed in this European Standard.

10.2 Scuba skills

The student shall satisfactorily demonstrate mastery of the scuba skills according to 8 and capabilities according to 9 to a scuba diving staff trainer (see Annex A for an explanatory example). Students shall be able to demonstrate skills in group control and supervision of diving activities.

Mastery of practical skills is defined as the ability to consistently perform a skill in a controlled and relaxed manner in conditions typical of the local environment.

10.3 Delivery of certification

The chairman of board of examiners must report to his organisation about the results of the items 10.1 to 10.2. After checking the qualification of the scuba diving staff trainer and the details of the report, the certification shall be delivered to the accepted candidate.