
Recreational diving services - Safety related minimum requirements for the training of recreational scuba divers - Part 1: Level 1 - Supervised Diver

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Dienstleistungen des Freizeittauchens - Sicherheitsrelevante Mindestanforderungen an die Ausbildung von Freizeit-Gerätetauchern - Teil 1: Ausbildungsstufe 1 - Beaufsichtigter Taucher

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Services relatifs a la plongée de loisirs - Exigences minimales liées a la sécurité concernant la formation des plongeurs en scaphandre autonome pratiquant la plongée de loisirs - Partie 1: Niveau 1 - Plongeur encadré

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EUROPEAN STANDARD
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This European Standard was approved by CEN on 1 September 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 14153-1:2003 (E)**Foreword**

This document (EN 14153-1:2003) has been prepared by Technical Committee CEN /TC 329, "Tourism Services", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2004, and conflicting national standards shall be withdrawn at the latest by May 2004.

Annexes A, B and C are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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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 series of specifications for safety practices and the provision of services.

Therefore these standards specify:

- necessary levels of experience and competency of scuba divers and scuba instructors,
- safety practices and requirements for recreational scuba diving service providers appropriate to the different diving levels.

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 EN 14153 consists of the following parts:

- EN 14153-1, *Recreational diving services - Safety related minimum requirements for the training of recreational scuba divers - Part 1: Level 1 – "Supervised Diver"*
- EN 14153-2, *Recreational diving services - Safety related minimum requirements for the training of recreational scuba divers - Part 2: Level 2 – "Autonomous Diver"*
- EN 14153-3, *Recreational diving services - Safety related minimum requirements for the training of recreational scuba divers - Part 3: Level 3 – "Dive Leader"*

The requirements specified are minima; they do not preclude the provision of additional training or the assessment by a service provider of additional competencies. The above mentioned European Standards represent a tool for comparison of existing (or future) qualifications of scuba instructors. In no way do they represent a course programme nor do they imply that course programs and scuba instructor certifications issued by different nations or organisations must necessarily correspond to these levels.

EN 14153-1:2003 (E)**1 Scope**

This European Standard specifies the competencies that a scuba diver has to have achieved in order for a service provider to award the scuba diver certification indicating that he has met or exceeded scuba diver level 1 – “Supervised diver” and specifies assessment of these competencies.

It also specifies conditions under which training has to be provided, in addition to the general requirements for recreational diving service provision according to prEN 14467.

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 (including amendments).

EN 250:2000, *Respiratory equipment - Open-circuit self-contained compressed air diving apparatus - Requirements, testing, marking*

EN 12628:1999, *Diving accessories - Combined buoyancy and rescue devices - Functional and safety requirements, test methods*

EN 14153-3, *Recreational diving services - Safety related minimum requirements for the training of recreational scuba divers - Part 3: Level 3 – "Dive Leader"*

prEN 14413-1, *Recreational diving services - Safety related minimum requirements for the training of scuba instructors - Part 1: Level 1*

prEN 14413-2, *Recreational diving services - Safety related minimum requirements for the training of scuba instructors – Part 2: Level 2*

prEN 14467, *Recreational diving services – Requirements for recreational scuba diving service providers*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions of EN 250:2000 and EN 12628:1999 and the following apply:

3.1 training organisation

entity providing recreational scuba diving training systems and certification and which is responsible for the implementation and quality management of scuba diver training

NOTE Entity may include scuba diving federations and scuba diver training agencies.

3.2 certification

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

3.3 scuba instructor

individual qualified according to prEN 14413-1 or prEN 14413-2 respectively

3.4**dive leader**

individual qualified according to EN 14153-3

3.5**breathing gas**

mixture of oxygen and nitrogen with no less than 20 % oxygen

3.6**confined water**

swimming pool with a depth appropriate to the activity or body of water that offers similar conditions with regard to visibility, depth, water movement and access

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:

- fins
- mask
- snorkel
- demand regulator (also referred to as a regulator)
- alternative breathing gas system

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NOTE This could range from a simple octopus system to a duplicate breathing system with a separate breathing gas supply.

- cylinder,
- cylinder-support-system,
- buoyancy compensator,
- a quick release weight system (if appropriate),
- submersible pressure gauge (breathing gas pressure monitor),
- means to measure depth and time and to safely limit exposure to inert gas
- diving suit (if appropriate)

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

4 Competencies of a recreational scuba diver at level 1 – "Supervised Diver"

A scuba diver at level 1 – "Supervised Diver" shall be trained so that when assessed in accordance with clause 10 they are deemed to have sufficient knowledge, skill and experience to dive in open water under the direct supervision of a dive leader.

Scuba divers at level 1 – "Supervised Diver" are qualified to dive within the following parameters accompanied by a dive leader:

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- dive to a recommended maximum depth of 12 m under the direct supervision of a dive leader,
- dive in groups of up to four level 1 scuba divers per dive leader provided the dive leader is capable of establishing physical contact with all level 1 scuba divers at any point during the dive,
- make dives which do not require in-water decompression stops,
- dive only when appropriate support is available at the surface,
- dive under conditions that are equal or better than the conditions where they were trained.

If accompanied by a scuba instructor, a scuba diver at level 1 – "Supervised Diver" may gain progressive experience beyond these parameters and develop competency in managing more challenging diving conditions designed to lead to higher qualifications.

Where further instruction is required this can only be provided by a suitably qualified scuba instructor. Where only further experience is required, this may be supervised by a dive leader.

5 Prerequisites for training**5.1 General**

The service provider shall ensure that the client fulfils the following prerequisites to take part in the training course envisaged.

5.2 Minors

Documented parental or legal guardian consent shall be obtained when the applicant is a minor.

5.3 Health requirements

Documented evidence shall be obtained that the student has been medically screened as suitable for recreational diving by means of an appropriate questionnaire or medical examination. In any case of doubt, or at the scuba instructor's discretion, students shall be referred to proper medical resources. If the student is not examined by a physician the student shall be obliged to confirm by signature that he or she has understood written information given by the scuba instructor on diseases and physical conditions which may pose diving related risks.

Students shall be advised of the importance of appropriate regular medical examinations.

6 Introductory information

Information according to prEN 14467 shall be made available to the students prior to, or during the first class meeting.

7 Required theoretical knowledge**7.1 Equipment**

Students shall have an appropriate level of knowledge concerning the practical use of diving equipment items according to 3.8.

7.2 Physics of diving

Students shall have an appropriate knowledge of the influence and effects of changing pressure in particular regarding:

- equalisation (e.g. ears and mask),
- breathing (not holding breath and effect of pressure on air consumption),
- buoyancy and how to control it.

7.3 Medical problems related to diving

7.3.1 General

Students shall have a basic knowledge of avoiding problems resulting from:

7.3.2 Direct effects of pressure

7.3.2.1 Increasing pressure (descent phase)

- gas compression (e.g. ears, sinuses, masks, lungs, suits, teeth)

7.3.2.2 Decreasing pressure (ascent phase)

- gas expansion (e.g. ears, sinuses, lungs, stomach, intestines, teeth)
- decompression illness (DCI) (e.g. decompression sickness, arterial gas embolism)

7.3.3 Other hazards

- physical and mental stress
- effects of temperature on the scuba diver
- medication, drugs, alcohol

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7.4 Diving environment

Students shall have a basic knowledge concerning the local and general conditions of the diving environment and their possible effects on the scuba diver and the scuba diver's impact on the environment.

7.5 Scuba diver separation procedures

Students shall have knowledge concerning correct actions in the event of separation from the group or their buddy.

8 Required scuba skills

8.1 Confined water scuba skills

Students shall be able to demonstrate the following skills; each skill shall be mastered in confined water before that skill is performed in open water:

- use of mask, fins and snorkel,
- diving equipment assembly and disassembly (at water's edge),
- entry and exit,
- mouthpiece clearing - snorkel and regulator,
- regulator/snorkel exchanges, swimming at the surface,