
Recreational diving services - Safety related minimum requirements for the training of recreational scuba divers - Part 2: Level 2 - Autonomous Diver

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Dienstleistungen des Freizeittauchens - Sicherheitsrelevante Mindestanforderungen an die Ausbildung von Freizeit-Gerätetauchern - Teil 2: Ausbildungsstufe 2 - Selbstständiger 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 loisir - Partie 2: Niveau 2 - Plongeur autonome

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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 14153-2:2003 (E)**Foreword**

This document (EN 14153-2:2003) 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of an identical text or by endorsement, at the latest by May 2004, and conflicting national standards shall be withdrawn at the latest by May 2004.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 14153-2:2003 (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 2 – “Autonomous diver” and 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 specified in 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

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 2 – "Autonomous Diver"

A scuba diver at level 2 – "Autonomous 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 with other scuba divers of at least the same level in open water without supervision of a scuba instructor.

Scuba divers at level 2 – "Autonomous Diver" are qualified to dive within the following parameters unless they have additional training or are accompanied by a dive leader:

EN 14153-2:2003 (E)

- dive to a recommended maximum depth of 20 m with other scuba divers of the same level,
- 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 diving conditions are significantly different from those previously experienced, a scuba diver at level 2 – "Autonomous Diver" requires an appropriate orientation from a dive leader.

Where further instruction is required this can only be provided by a suitably qualified scuba instructor of level 2.

If accompanied by a scuba instructor, a scuba diver at level 2 – "Autonomous Diver" may gain progressive experience beyond these parameters and develop competency in managing more challenging diving conditions (e.g. increased depth and current, reduced visibility, extreme temperatures) designed to lead to higher qualifications.

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 knowledge concerning the physical characteristics, operating principles, maintenance and use of the following equipment items:

- mask,
- fins,
- snorkel,

- diving suits,
- quick release weight systems,
- float and flag,
- cylinders,
- cylinder valves,
- regulators,
- submersible pressure gauge (breathing gas pressure monitor),
- alternative breathing gas source,
- cylinder-support systems
- buoyancy control devices,
- timing devices,
- under-water navigational aids,
- depth gauge/depth monitor,
- dive tables,
- dive computers,
- knife/cutting devices,
- lights,
- emergency signalling device (acoustical, optical),
- first aid and oxygen kit,
- personal diving log.

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7.2 Physics of diving

Students shall have an appropriate knowledge concerning the physical principles and their application to diving activities, equipment and hazards relating to:

- sound,
- light,
- buoyancy,
- pressure/gas laws,
- temperature.

7.3 Use of dive tables (decompression tables) and dive computers

Students shall have an appropriate knowledge concerning the use of dive tables and dive computers including: