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Recreational diving services – Requirements for the training of recreational scuba divers – Part 2: Level 2 – Autonomous diver (ISO 24801-2:2014)

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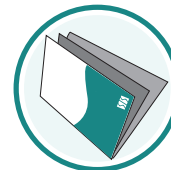
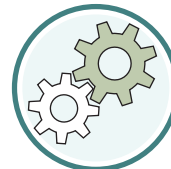
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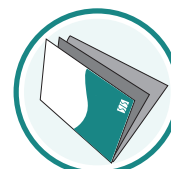
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Europastandarden EN ISO 24801-2:2014 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 24801-2:2014.

Denna standard ersätter SS-EN 14153-2, utgåva 1 och SS-ISO 24801-2:2007, utgåva 1.

The European Standard EN ISO 24801-2:2014 has the status of a Swedish Standard. This document contains the official version of EN ISO 24801-2:2014.

This standard supersedes the Swedish Standard SS-EN 14153-2, edition 1 and SS-ISO 24801-2:2007, edition 1.

**Förhållandet till övriga delar under samma huvudtitel - Utdrag ur Förord i ISO 24801-2:2014/
Relations to other parts under the same general title - Extract from the Foreword of
ISO 24801-2:2014**

ISO 24801 consists of the following parts, under the general title Recreational diving services — Requirements for the training of recreational scuba divers:

- *Part 1: Level 1 — Supervised diver*
- *Part 2: Level 2 — Autonomous diver*
- *Part 3: Level 3 — Dive leader*

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EUROPEAN STANDARD

EN ISO 24801-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2014

ICS 03.080.30; 03.200

Supersedes EN 14153-2:2003

English Version

Recreational diving services - Requirements for the training of recreational scuba divers - Part 2: Level 2 - Autonomous diver (ISO 24801-2:2014)

Services relatifs à la plongée de loisirs - Exigences concernant la formation des plongeurs pratiquant la plongée de loisirs - Partie 2: Niveau 2 - Plongeur autonome (ISO 24801-2:2014)

Dienstleistungen des Freizeittauchens - Anforderungen an die Ausbildung von Freizeit-Gerätetauchern - Teil 2: Ausbildungsstufe 2 - Selbständiger Taucher (ISO 24801-2:2014)

This European Standard was approved by CEN on 22 February 2014.

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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN ISO 24801-2:2014) has been prepared by Technical Committee ISO/TC 228 "Tourism and related services" in collaboration with 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 October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

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Endorsement notice

The text of ISO 24801-2:2014 has been approved by CEN as EN ISO 24801-2:2014 without any modification.

Introduction

This part of ISO 24801 is one of a series of International Standards relating to recreational diving services, which have been prepared with the aim of establishing a set of specifications for safety practices and the provision of services.

These International 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.

The requirements specified are minimal; they do not preclude the provision of additional training or the evaluation of additional competencies by a service provider. These International Standards represent a tool for comparison of existing (or future) qualifications of scuba divers. They do not represent a course programme, nor do they imply that course programmes and scuba diver qualifications issued by different nations or training organizations are required to correspond to these levels.

Recreational diving services — Requirements for the training of recreational scuba divers —

Part 2: Level 2 — Autonomous diver

1 Scope

This part of ISO 24801 specifies the competencies required of a scuba diver in order to obtain a scuba diver qualification from a training organization attesting that he/she has met or exceeded scuba diver level 2 (“Autonomous diver”), and specifies evaluation criteria for these competencies.

It also specifies the conditions under which training is provided, in addition to the general requirements for recreational diving service provision in accordance with ISO 24803.

This part of ISO 24801 applies to training and evaluation in recreational scuba diving.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 24801-3, *Recreational diving services — Requirements for the training of recreational scuba divers — Part 3: Level 3 — Dive leader*

ISO 24802-1, *Recreational diving services — Requirements for the training of scuba instructors — Part 1: Level 1*

ISO 24802-2, *Recreational diving services — Requirements for the training of scuba instructors — Part 2: Level 2*

ISO 24803, *Recreational diving services — Requirements for recreational scuba diving service providers*

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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 250:2000 and EN 12628:1999 and the following apply.

3.1 training organization

entity providing training systems and issuing qualifications for recreational diving, and which is responsible for the implementation and quality management of training

Note 1 to entry: Entity can include scuba diving federations and scuba diver training agencies.

3.2

scuba instructor

individual qualified in accordance with ISO 24802-1 or ISO 24802-2

3.3

dive leader

individual qualified in accordance with ISO 24801-3

3.4

breathing gas

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

3.5

confined water

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

3.6

open water

body of water significantly larger than a swimming pool, offering conditions typical of a natural body of water

3.7

diving equipment

equipment consisting of fins, mask, snorkel, regulator, alternative breathing gas system, 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 1 to entry: An alternative breathing gas system could range from a simple octopus system to a duplicate breathing system with a separate breathing gas supply.

Note 2 to entry: Specific environments can require additional equipment (e.g. an underwater navigational aid, knife/cutting device, delayed surface marker buoy).

3.8

direct supervision

supervision of a group of divers by a scuba instructor or a dive leader who is in a position that allows rapid intervention on behalf of the divers

4 Competencies of a recreational scuba diver at level 2 (“Autonomous diver”)

Scuba divers at level 2 shall be trained such that when evaluated 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 are qualified to dive within the following parameters unless they have additional training or are accompanied by a dive leader:

- 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 (e.g. first aid kit, a dive leader, support vessel; as appropriate to the dive site and the divers’ experience) 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 requires an appropriate orientation from a dive leader.

Where further instruction is required this may only be provided by a suitably qualified scuba instructor of level 2. If accompanied by a scuba instructor, a scuba diver at level 2 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 (see [Annex A](#) for an example of a medical sheet). In any case of doubt, the training service provider shall refer students 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 can pose diving related risks.

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

6 Introductory information

Information in accordance with ISO 24803 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, flag and marker buoy;
- cylinders;
- cylinder valves;
- regulators;