Recreational diving services - Requirements for rebreather diver training - Decompression diving to 45 m (ISO 24805:2022)



EESTI STANDARDI EESSÕNA

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This Estonian standard EVS-EN ISO 24805:2022 consists of the English text of the European standard EN ISO 24805:2022.

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English Version

Recreational diving services - Requirements for rebreather diver training - Decompression diving to 45 m (ISO 24805:2022)

Services relatifs à la plongée de loisirs - Exigences concernant la formation des plongeurs à l'utilisation des recycleurs - Plongée avec décompression jusqu'à 45 m (ISO 24805:2022)

Dienstleistungen des Freizeittauchens - Anforderungen an die Ausbildung von Kreislaufgerätetauchern -Dekompressionstauchen bis 45 m (ISO 24805:2022)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO 24805:2022) 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of an identical text or by endorsement, at the latest by March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.

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Endorsement notice

The text of ISO 24805:2022 has been approved by CEN as EN ISO 24805:2022 without any modification.

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Foreword

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This document was prepared by Technical Committee ISO/TC 228, *Tourism and related services*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 329, *Tourism services*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Rebreathers (i.e. breathing devices that recirculate some or all of the diver's exhaled breath and replenish any consumed oxygen to maintain a breathable mixture) are becoming much more widely available and popular among divers. The market for rebreather diving has been constantly growing in recent years and is now considered to be large enough that the need for standards on minimum training requirements for training organizations is evident. Rebreathers allow divers to dive for longer and to greater depths. Such depths can go beyond 30 m and therefore require mandatory decompression stops. If rebreathers are used improperly they can be hazardous; divers have had fatal accidents due to incorrect use of these devices. It is therefore important to specify training for diving with such devices.

Training organizations offering training that conforms with this document may exceed any of the a. ame c ge defin. requirements in terms of the volume or complexity of training but should at least ensure the students master all the skills and knowledge defined in this document.

Recreational diving services — Requirements for rebreather diver training — Decompression diving to 45 m

1 Scope

This document specifies requirements for rebreather diver training programmes which provide the competencies required to perform dives with a rebreather to 40 m using a nitrox breathing mixture or to 45 m using a trimix breathing mixture, requiring mandatory decompression stops.

This document specifies evaluation criteria for these competencies.

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

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 11107, Recreational diving services — Requirements for training programmes on enriched air nitrox (EAN) diving

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

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 diving providers

 $ISO\ 24804, Recreational\ diving\ services -- Requirements\ for\ rebreather\ diver\ training\ -- No-decompression\ diving$

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

3.1

rebreather

apparatus that has a supply of gas carried by the diver, allowing the diver to breathe underwater, which enables the diver to inspire gas from a facepiece connected to a counterlung and to pass exhaled gas through a carbon dioxide absorption material before it is rebreathed from the counterlung and inspired partial pressure of the gases within the apparatus remain within acceptable physiological limits so that gas is thus recirculated within the apparatus

Note 1 to entry: A rebreather can also be called a self-contained rebreathing diving apparatus.

Note 2 to entry: A facepiece can be a mouthpiece assembly, a half mask, a full-face mask or a helmet.