



SLOVENSKI STANDARD
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Zahteve za usposabljanje znanstvenih potapljačev - 3. del: Vodja projekta znanstvenega potapljanja (ISO/DIS 8804-3:2023)

Requirements for the training of scientific divers - Part 3: Scientific diving project leader (ISO/DIS 8804-3:2023)

Anforderungen an die Ausbildung von Wissenschaftlichen Tauchern - Teil 3: Projektleitung Wissenschaftlicher Taucher (ISO/DIS 8804-3:2023)

Exigences concernant la formation des plongeurs scientifiques - Partie 3: Responsable de projet de plongée scientifique (ISO/DIS 8804-3:2023)

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ICS:

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oSIST prEN ISO 8804-3:2023

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Requirements for the training of scientific divers — Part 3: Scientific diving project leader

ICS: 03.100.30

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 228, *Tourism and related services*.

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

This three-part standard is aimed primarily at scientists and academics training to become scientific divers (at three levels of competency) and will set minimum requirements for the training of scientific divers at the three levels reflected in the names of the three parts. It will be beneficial, both to organizations involved in training scientific divers and the scientific diving community as a whole.

This document is considered the minimum competency standard for recognition as a scientific diver. It is intended to provide guidance regarding agreed-upon minimum training requirements, thereby easing barriers to cross-program co-operation and reciprocity through common acknowledgment of the basic 'skill set' for scientific divers.

Many organisations will have additional requirements for qualification of scientific divers. These supplementary requirements may include, but are not limited to, a greater number of training dives, additional training, enhanced fitness qualifications and requirements for maintenance of active diver status.

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Requirements for the training of scientific divers —

Part 3: Scientific diving project leader

1 Scope

This document specifies minimum requirements for the training of scientific diving project leaders.

This document specifies evaluation criteria for scientific diving project leaders.

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

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/DIS 8804-1, *Requirements for the training of Scientific Divers — Part 1: Scientific Diver*

ISO/DIS 8804-2, *Requirements for the training of Scientific Divers — Part 2: Advanced Scientific Diver*

3 Terms and definitions

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

ISO and IEC maintain terminological 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

scientific diving

diving performed as part of a scientific, research, or educational activity

3.2

scientific diver

diver competent in scientific methodology undertaking *scientific diving* (3.1)

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4 Competencies

Scientific diver project leaders shall be trained such that when evaluated in accordance with [Clause 10](#) they are deemed to have sufficient knowledge, skills and experience with regard to managing:

- the planning;
- the experimental design;
- the execution;
- the documenting and reporting of the findings of scientific diving projects.

Scientific diver project leaders shall have the competency to handle complex scientific diving operations including:

- coordinating diving operations in remote locations;
- coordinating multiple diving teams;
- vessel operations for scientific dives.

Scientific diver project leaders shall have the competency to evaluate the quality of sampling (e.g. accuracy, possible sources of bias, repeatability).

In order to be deemed competent to supervise training courses in accordance with ISO 8804-1 and ISO 8804-2, scientific diver project leaders shall also meet the requirements of ISO 24802-2.

5 Prerequisites for training

5.1 General

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

5.2 Health requirements

Documented evidence shall be obtained that the trainee has been medically screened as suitable for diving.

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

NOTE See bibliography for an example of a medical questionnaire and accompanying guidance to physicians.

5.3 Scientific diving prerequisites

Trainees shall have the qualification of an advanced scientific diver in accordance with ISO 8804-2. Trainees shall hold a relevant scientific credential or be able to provide documented equivalent experience.

Trainees shall:

- have participated as a scientific diver in at least two separate scientific diving projects or
- have observed at least one scientific diver course in accordance with ISO 8804-1 or ISO 8804-2.

6 Introductory information

Information in accordance with ISO 24803 shall be made available to the trainees prior to, or during the first instructional session or meeting.