
**Recreational diving services — Safety
related minimum requirements for the
training of scuba instructors —**

**Part 2:
Level 2**

*Services relatifs à la plongée de loisirs — Exigences minimales liées à
la formation des moniteurs de plongée subaquatique —*

Partie 2: Niveau 2

STANDARDSISO.COM : Click to view the full PDF of ISO 24802-2:2007



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

STANDARDSISO.COM : Click to view the full PDF of ISO 24802-2:2007

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	1
4 Competencies of a scuba instructor at level 2	2
5 Prerequisites	2
5.1 Practical experience	2
5.2 Health requirements	2
6 Scuba instructor candidate information.....	3
7 Required theoretical knowledge	3
8 Personal scuba skills	3
9 Theoretical teaching skills.....	3
10 Teaching and supervision of scuba skills.....	4
11 Emergency procedures	4
11.1 Diver rescue	4
11.2 First aid	4
11.3 Oxygen administration	4
12 Scuba instructor-trainers	5
13 Certification	5
13.1 Minimum age	5
13.2 Minimum practical experience	5
13.3 Theoretical knowledge	5
13.4 Teaching techniques	5
13.5 Teaching and supervision of scuba skills.....	6
13.6 Supervision and guidance of diving activities	6
13.7 Emergency procedures	6
Annex A (informative) Example of assessment of teaching and evaluation competencies when teaching a level 3 scuba diver course	7

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 24802-2 was prepared by the European Committee for Standardization (as EN 14413-2:2004) and was adopted, under a special “fast-track procedure”, by Technical Committee ISO/TC 228, *Tourism and related services*, in parallel with its approval by the ISO member bodies.

ISO 24802 consists of the following parts, under the general title *Recreational diving services — Safety related minimum requirements for the training of scuba instructors*:

- *Part 1: Level 1*
- *Part 2: Level 2*

Introduction

The International Standards relating to recreational diving services have been prepared by ISO/TC 228/WG 1 “Diving services”, with the aim of establishing a series of specifications for safety practices and the provision of services.

Therefore 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 assessment by a service provider of additional competencies. These International 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 organizations must necessarily correspond to these levels.

STANDARDSISO.COM : Click to view the full PDF of ISO 24802-2:2007

Recreational diving services — Safety related minimum requirements for the training of scuba instructors —

Part 2: Level 2

1 Scope

This part of ISO 24802 specifies the competencies that a scuba instructor has to have achieved in order for a training organization to award the scuba instructor certification indicating that he has met or exceeded scuba instructor level 2 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 in accordance with ISO 24803.

This part of ISO 24802 applies only to contractual training and certification in recreational scuba diving.

2 Normative references

The following referenced documents are indispensable for the application 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 24801-1:2007, *Recreational diving services — Safety related minimum requirements for the training of recreational scuba divers — Part 1: Level 1 — Supervised diver*

ISO 24801-2:2007, *Recreational diving services — Safety related minimum requirements for the training of recreational scuba divers — Part 2: Level 2 — Autonomous diver*

ISO 24801-3:2007, *Recreational diving services — Safety related minimum requirements for the training of recreational scuba divers — Part 3: Level 3 — Dive leader*

ISO 24802-1:2007, *Recreational diving services — Safety related minimum requirements for the training of scuba instructors — Part 1: Level 1*

ISO 24803:2007, *Recreational diving services — Requirements for recreational scuba diving service providers*

3 Terms and definitions

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

3.1 training organization

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 in accordance with this part of ISO 24802, as issued by training organizations

3.3 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

3.4 open water
body of water significantly larger than a swimming pool offering conditions typical of a natural body of water encountered in the region

4 Competencies of a scuba instructor at level 2

A level 2 scuba instructor shall be trained such that when assessed in accordance with Clause 13 they are deemed to be qualified to:

- plan, organize and conduct dives and lead other recreational scuba divers of all levels in open water, including rescue activities,
- teach and assess students up to scuba diver level 1, level 2 and level 3 in accordance with ISO 24801-1, ISO 24801-2 and ISO 24801-3, respectively,
- supervise level 1 scuba instructors in accordance with ISO 24802-1,
- plan, organize and conduct scuba diver training courses,
- with suitable additional training or experience to plan, organize and conduct appropriate speciality or diving operational activities.

Prior to certification the scuba instructor candidate shall be informed that if diving and environmental conditions are significantly different from those previously experienced, in order to meet the above mentioned competencies, an appropriate orientation with regard to local diving and environmental conditions may be required.

5 Prerequisites

5.1 Practical experience

The scuba instructor-trainer shall ensure that scuba instructor candidates have certification to at least scuba diver level 3 — “Dive leader” with additional practical experience gained after level 3 certification in accordance with to ISO 24801-3 prior to their assessment in accordance with Clause 13.

5.2 Health requirements

Scuba instructor candidates shall be medically screened as suitable for diving in accordance with procedures laid down by a competent medical authority. If such procedures are not specified scuba instructor candidates shall provide evidence of a diver medical examination not older than one year unless the medical doctor who has carried out the examination specifies longer validity.

6 Scuba instructor candidate 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

Scuba instructor candidates shall have extensive theoretical knowledge regarding the scuba skills specified in ISO 24801-1, ISO 24801-2 and ISO 24801-3 and sufficient knowledge to be able to give presentations on topics from ISO 24801-1:2007, Clause 7, ISO 24801-2:2007, Clause 7, and ISO 24801-3:2007, Clause 7.

Additionally scuba instructor candidates shall have appropriate knowledge of the following issues:

- medical and psychological contraindications for scuba diving,
- the training requirements for scuba diver level 1 in accordance with ISO 24801-1, level 2 in accordance with ISO 24801-2 and level 3 in accordance with ISO 24801-3 and level 1 scuba instructor in accordance with ISO 24802-1,
- the duty of care of a scuba instructor,
- safety regulations affecting scuba diving service provision (e.g. regulations affecting schools, centres, clubs, organizations),
- methods of safely filling diving cylinders including relevant local regulations concerning cylinder working pressures and testing requirements,
- relationships and communication with relevant public authorities (e.g. police, customs, rescue organizations, fire-brigade),
- administration within a diving centre/club/training organization with regard to diving and training activities,
- teaching principles and methodology,
- selection of dive sites using appropriate navigational aids (e.g. maps, navigational charts, tide tables).

8 Personal scuba skills

Scuba instructor candidates shall be able to perform all of the personal scuba skills from level 1, level 2 and level 3 scuba diver in accordance with ISO 24801-1, ISO 24801-2 and ISO 24801-3, respectively, to demonstration quality.

9 Theoretical teaching skills

Scuba instructor candidates shall be able to conduct lesson preparation, planning and delivery of theoretical teaching presentations.

10 Teaching and supervision of scuba skills

Scuba instructor candidates shall be able to conduct in-water lessons for students at level 1, level 2 and level 3 from the topics outlined in ISO 24801-1, ISO 24801-2 and ISO 24801-3. Assessment shall include activities demonstrating skills relevant to confined and open water. The open water activities shall be performed at an open water site representative of local conditions.

Lesson elements to be assessed shall include

- preparation,
- planning,
- briefing and debriefing,
- group control and supervision,
- skill demonstration,
- problem recognition and solving,
- student evaluation.

11 Emergency procedures

11.1 Diver rescue

Scuba instructor candidates shall be competent in diver rescue skills including:

- recognition of emergency situations (e.g. loss of breathing gas supply, lack of response),
- controlled casualty recovery from depth,
- effective emergency surface actions,
- casualty recovery from the water,
- emergency situation management including co-ordination with emergency services in accordance with local emergency procedures.

11.2 First aid

Students shall complete a course/courses in first-aid and cardiopulmonary resuscitation (CPR) approved by the training organization and have a valid qualification or certificate.

11.3 Oxygen administration

Scuba instructor candidates shall be competent in the emergency administration of oxygen. This shall include knowledge of the medical principles involved and practical use of an emergency oxygen unit.

12 Scuba instructor-trainers

Scuba instructor-trainers shall be responsible for instructor training and certification.

Scuba instructor-trainers shall be scuba instructors of senior standing and of higher qualification than a level 2 scuba instructor and shall have received specific training in the education and development of scuba instructors.

Scuba instructor-trainers shall have an extensive knowledge of pedagogy and relevant educational systems and shall be qualified and sanctioned by a training organization or competent public authority as being able to teach and evaluate scuba instructors.

Scuba instructor-trainers may take the role of trainers or examiners of scuba instructor candidates in accordance with the procedures defined by such training organizations or competent public authorities.

The process of training and certification of scuba instructor candidates shall involve at least one scuba instructor-trainer and one level 2 scuba instructor of senior standing.

13 Certification

13.1 Minimum age

The minimum age for receiving certification as level 2 scuba instructor shall be 18 years.

13.2 Minimum practical experience

Scuba instructor candidates shall have met all requirements for a level 1 scuba instructor in accordance with ISO 24802-1 and a level 2 scuba instructor in accordance with this part of ISO 24802 prior to certification.

Scuba instructor candidates shall have gained teaching experience by playing the role of an instructor in a structured series of training sessions (in the classroom and in confined and open water) which will expose them to a comprehensive range of duties and problems they will be expected to encounter once qualified. Situations to which they will be exposed should include simulated in-water emergencies, group dynamics and behavioural problems and typical learning difficulties.

Scuba instructor candidates shall have gained sufficient diving experience to demonstrate competency in all of the abilities specified in this part of ISO 24802.

13.3 Theoretical knowledge

Scuba instructor candidates shall satisfactorily demonstrate to a scuba instructor-trainer knowledge of scuba diving training by taking and passing an examination. This examination shall test theoretical knowledge in accordance with Clause 7 and knowledge of skills in accordance with Clauses 8, 9, 10 and 11.

13.4 Teaching techniques

Scuba instructor candidates shall satisfactorily demonstrate to a scuba instructor-trainer their ability to prepare and present theoretical and practical presentations that are technically correct, of an appropriate content and are delivered in an effective manner suited to the students' needs.

An example for the assessment of teaching and supervision of scuba skills is given in Annex A.

13.5 Teaching and supervision of scuba skills

Scuba instructor candidates shall satisfactorily demonstrate to a scuba instructor-trainer their ability to perform, teach and evaluate scuba skills in accordance with ISO 24801-1, ISO 24801-2 and ISO 24801-3.

This assessment shall include both confined water and open water activities. Scuba instructor candidates shall not be given information in advance of the assessment session on the precise exercise to be used.

An example for the evaluation of teaching and supervision of scuba skills is given in Annex A.

13.6 Supervision and guidance of diving activities

Scuba instructor candidates shall demonstrate to a scuba instructor-trainer skills in group control and supervision of students' diving activities including responsible judgement on relevant site criteria such as weather, depth, visibility, water movement and level of supervision required.

13.7 Emergency procedures

Scuba instructor candidates shall demonstrate to a scuba instructor-trainer skills selected from those specified in Clause 11 by completing at least one simulated open water rescue.

STANDARDSISO.COM : Click to view the full PDF of ISO 24802-2:2007