



Australian Government

SISOSCB007 Inspect and fill SCUBA cylinders

Release: 2

SISOSCB007 Inspect and fill SCUBA cylinders

Modification History

Release 2:SISOSCB007 Inspect and fill SCUBA cylinders supersedes and is equivalent to Release 1 SISOSCB007 Inspect and fill SCUBA cylinders.

Updated: Minor change to Assessment Conditions.

Release 1: Supersedes and is not equivalent to SISOSCB307A Inspect and fill SCUBA cylinders.

Application

This unit describes the performance outcomes, skills and knowledge required visually inspect and fill SCUBA cylinders.

SCUBA cylinders are required to undergo cyclic inspection and can only be certified by a certified gas cylinder test station. This unit does not cover those specialist skills.

It applies to dive leaders, usually known as divemasters, or instructors and to assistant instructors and support staff.

This unit applies to any type of organisation that delivers SCUBA diving activities and dive instruction including commercial, not-for-profit and government organisations.

No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

SCUBA Diving

Unit Sector

Outdoor Recreation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

1. Visually inspect, SCUBA cylinders.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1. Visually inspect cylinders prior to filling, according to organisational safety procedures and manufacturers'

- specifications.
- 1.2. Identify any non-compliant cylinders, tag and isolate from use according to organisational procedures
 - 1.3. Remove cylinder boot and mesh, visually inspect exterior of cylinders for dents, gouges and corrosion.
2. Fill SCUBA cylinders.
- 2.1. Operate high pressure compressor according to organisational safety procedures and manufacturers' specifications.
 - 2.2. Fill cylinders with air to correct capacity and pressure.
 - 2.3. Refit valve and clean and dry areas.
 - 2.4. Complete leak testing and documentation according to organisational requirements.
 - 2.5. Handle, store and restrain cylinders according to organisational safety procedures.
 - 2.6. Test organisation's air purity regularly to ensure it meets standards.

Foundation Skills

Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

SKILLS	DESCRIPTION
Reading skills to:	interpret complex and sometimes unfamiliar documents which can include organisational work health and safety procedures and templates, and manufacturers' specifications.
Writing skills to:	use fundamental sentence structure to complete fault tags and forms that require factual information.
Numeracy skills to:	interpret, calculate and document numerical data involving pressures and percentages.
Planning and organising skills to:	manage own timing and productivity to complete inspections and fills within organisational service times.

Unit Mapping Information

This unit supersedes and is not equivalent to SISOSCB307A Inspect and fill SCUBA cylinders.

Links

Companion Volume Implementation Guides -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1ca50016-24d2-4161-a044-d3faa200268b>

Assessment Requirements for SISOSCB007 Inspect and fill SCUBA cylinders

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Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- visually inspect, verify condition and certification, and fill four SCUBA cylinders
- complete all required documentation for the four inspections and fills
- utilise options provided in Assessment Conditions to identify two non-compliant or faulty cylinders and complete required documentation
- test the purity of organisation's air supply on two occasions and complete required documentation
- during all activities, consistently comply with organisational safety procedures.

Knowledge Evidence

Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:

- organisational safety procedures for inspecting and filling SCUBA cylinders
- provisions and requirements of the following Australian or international Standards that relate to inspecting and filling SCUBA cylinders:
 - Gas Cylinders
 - Filling of Portable Gas Cylinders
- issues that are checked prior to filling SCUBA cylinders:
 - currency of testing certification
 - condition of cylinder via visual inspection including exterior damage, corrosion and rust; deterioration of exterior paint
- features, functions and operation of equipment used to fill SCUBA cylinders:
 - air compressors and gauges
 - air storage banks
- manufacturers' specifications for use of equipment

- required pressures for SCUBA cylinders of different types and capacities
- procedures for testing purity of organisation's air supply
- inclusions of organisational inspection documents.

Assessment Conditions

Skills must be demonstrated in a SCUBA gas filling station.

Assessment must ensure use of:

- SCUBA cylinders in different conditions, including those in poor condition
- real workplace situations, or simulated activities, or case study scenarios that test aspects of this unit that relate to non-compliant or faulty cylinders
- air compressors and gauges
- air storage banks
- the current Australian or international Standards for:
 - Gas Cylinders
 - Filling of Portable Gas Cylinders
- cylinder tags
- template equipment fault reports
- organisational safety procedures for inspecting and filling SCUBA cylinders.

Assessors must satisfy the Standards for Registered Training Organisations requirements for assessors.

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