

# Requirements for Diving and Medical Oxygen Cylinder Testing Centers

## First: Services Provided

1. **Visual Inspection:** Conducting visual inspections for diving and oxygen cylinders (made of aluminum alloy or steel) and issuing a validity certificate for one year.
2. **Hydrostatic Testing:** Performing hydrostatic tests on diving and oxygen cylinders using the immersion method for cylinders up to 20 liters and internal liquid pressure method for larger cylinders, issuing validity certificates for five years.
3. **Valve Maintenance:** Maintenance of all types of cylinder valves.

## Second: Required Documents

The following documents should be submitted as copies after verifying the originals:

### Establishment Documents

- **Lease or Ownership Document:** A dated copy of the lease or ownership document for the center's premises.
- **Company Formation Documents:** Company formation contract and the legal representative, purpose, recent commercial registration (less than one year), and tax card.
- **Employee Identification:** Copies of employee IDs along with a list of their names and positions.
- **Services List:** A list of services required for accreditation.
- **Inventory of Equipment:** Listing of testing equipment with calibration certificates for pressure measurement devices.

### Technical Manager Documents

- **Identification:** A copy of the national ID or passport for foreigners.
- **Qualification:** At least a secondary education degree (original required for verification).
- **Age Requirement:** The manager must be at least 25 years old.
- **Criminal Record:** A clear record without dishonorable convictions (work permit for foreigners or Form No. 4) (submit a copy and present the original for verification).
- **Technical Manager License:** A copy of the technical manager's license from a recognized cylinder testing organization, with the original for verification.

**After completing the documentation and obtaining the approval certificate, CDWS card must be issued for the technical manager and all employees at the facility.**

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## Third: Premises Requirements

- **Reception Area:** An appropriate reception area suitable for meeting clients.
- **Instruction Board:** A prominently displayed instruction board including the price list, complaints number, a note stating that all dealings must be through facilities that hold valid license from the Ministry of Tourism and Antiquities, center-specific instructions, and that cylinders failing the tests will be destroyed before returning them to their owner. The board must also display the accreditation certificate.
- **Storage Room:** For cylinders, with a clear separation between tested and untested cylinders.
- **Administration Room:** For file storage.
- **Maintenance Workshop:** For cylinder and valve maintenance.
- **First Aid Kit:** Must be available on-site.


## Fourth: Registers and Records


- **Service Register:** Documenting client names, service type (visual/hydrostatic inspection, maintenance, cleaning), cylinder serial numbers, service dates, and test results.
- **Equipment Inventory and Maintenance Log:** For all equipment used.
- **Cylinder Validity Certificates:** To be maintained.

## Fifth: Equipment


- Hydrostatic testing unit using immersion method.
- Hydrostatic testing unit for internal liquid pressure.
- Steel ruler for measuring surface integrity.
- Thickness gauge for cylinder walls.
- Internal cleaning and polishing unit to remove all oxides.
- Approved materials for cleaning based on cylinder material.
- High-pressure washing unit.
- Hot air-drying unit to ensure no moisture remains in aluminum cylinders for more than two hours and immediate drying for steel cylinders post-testing.
- Means to view all areas of the internal cylinder wall for inspecting internal surfaces.
- Suitable lighting for internal inspections.
- Mirror for examining cylinder threads.
- Internal corrosion measurement system.
- Cylinder destruction equipment.
- Visual inspection stickers.
- Unique hydrostatic testing stamp.
- Torque wrench for valve attachment.
- Tool for measuring external corrosion depth.



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## Sixth: General Requirements and Standards for Cylinder Testing Centers

- **Destruction Method:** Effective means to destroy cylinders failing hydrostatic or visual tests, ensuring they can no longer be used for compressed gases, with the owner's consent obtained prior to testing.
- **Maximum Thickness:** Aluminum cylinders should not exceed 1.53 mm, steel cylinders 0.47 mm.
- **Inspection Frequency:** No more than 12 months between visual inspections, with a label on the cylinder indicating the date of the visual inspection (year and month).
- **Record Keeping:** The center must retain a record of tests containing all data from the technical manager for one year.
- **Annual Accreditation:** Centers must obtain an accreditation certificate from the chamber, renewed annually.
- **Testing Schedule:** Aluminum or steel cylinders must undergo hydrostatic testing five years after production and every five years thereafter, even if unused.
- **Initial Testing:** All cylinders must undergo visual inspection before being put into service, even if new.
- **Cylinder Identification:** Any cylinder with an unclear or obliterated serial number must be destroyed.
- **Valve Maintenance:** Cylinder valves must be tested and regularly maintained with each visual inspection, ensuring that cylinders are not accepted without their valves and must be closed.
- **External Surface Inspection:** Examine the outer surfaces, especially under rubber boots or metal straps; if corrosion is suspected under any coating, the entire coating must be removed.
- **Coating Application:** Coating of cylinders is permitted only after complete removal of any prior coatings in cases of external rust, ensuring the visibility of serial numbers and inspection dates.
- **Authorized Entities Only:** No dealings with unauthorized entities without consulting the chamber.
- **Transfer of Cylinders:** In cases of transfer/sale of cylinders from one facility to another, a bill of sale must be presented to the testing center.
- **Service Request Acknowledgment:** Service applicants must sign a declaration prior to cylinder submission for testing.

## Declaration

**Agreement Contract:** By signing this contract, the center is authorized to destroy any cylinders that fail required tests as per the manufacturer's specifications and accredited by the Ministry of Tourism and Antiquities and the Diving and Marine Activities Chamber. The center has no right to claim against the facility or object to this procedure if the cylinders are deemed unfit. The client acknowledges that defective cylinders cannot be returned without destruction.

- **Technical Manager of the Center:**

- Name:
- Signature:
- Date:
- Center Stamp:

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