



An tÚdarás Sláinte agus Sábháilteachta
Health and Safety Authority

2025

Diving Standards



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Irish Standards

The following is a non-exhaustive list of Irish standards relating to diving.

Air Quality

1. [I.S. EN 12021:2014](#) - Respiratory equipment - Compressed gases for breathing apparatus.

Buoyancy Compensators

1. [I.S. EN 1809:2014](#) - Diving equipment - Buoyancy compensators - Functional and safety requirements, test methods.
2. [I.S. EN 12628:1999](#) - Diving accessories - Combined buoyancy and rescue devices - Functional and safety requirement, test methods.

Cylinders and Valves

1. [I.S. EN 144-1:2018](#) - Respiratory protective devices - Gas cylinder valves - Part 1: Inlet connections.
2. [I.S. EN 144-3:2003](#) - Respiratory protective devices - Gas cylinder valves - Part 3: Outlet connections for diving gases nitrox and oxygen.
3. [I.S. EN 1089-3:2011](#) - Transportable gas cylinders. Gas cylinder identification (excluding LPG) - Part 3. Colour coding.
4. [I.S. EN ISO 10460:2018 & LC:2019](#) - Gas cylinders - Welded aluminium-alloy, carbon and stainless steel gas cylinders - Periodic inspection and testing (ISO 10460:2018).
5. [I.S. EN 1964-3:2000](#) - Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of water capacities from 0.5 Litre up to and including 150 Litres - Part 3: Cylinders made of seamless stainless steel with an R[M] value of less than 1100MPa.
6. [I.S. EN ISO 7225:2007 & AI 2012](#) - Gas cylinders - Precautionary labels (ISO 7225:2005).
7. [I.S. EN ISO 7866:2012 & AC:2014 & A1:2020](#) - Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing – Amendment 1 (ISO 7866:2012/Amd 1:2020).
8. [I.S. EN ISO 9809-1:2019](#) - Gas cylinders - Design, construction and testing of refillable seamless steel gas cylinders and tubes - Part 1: Quenched and tempered steel cylinders and tubes with tensile strength less than 1100 MPa (ISO 9809-1:2019).

9. [I.S. EN ISO 9809-3:2019](#) - Gas cylinders - Design, construction and testing of refillable seamless steel gas cylinders and tubes - Part 3: Normalised steel cylinders and tubes (ISO 9809-3:2019).
10. [I.S. EN ISO 10460:2018 & LC:2019](#) - Gas cylinders - Welded aluminium-alloy, carbon and stainless steel gas cylinders - Periodic inspection and testing (ISO 10460:2018).
11. [I.S. EN ISO 11114-1:2020/A1:2023](#) - Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 1: Metallic materials – Amendment 1 (ISO 11114-1:2020/Amd 1:2023).
12. [I.S. EN ISO 11114-2:2021](#) - Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 2: Non-metallic materials (ISO 11114- 2:2021).
13. [I.S. EN ISO 11114-3:2010](#) - Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 3: Autogenous ignition test for non-metallic materials in oxygen Atmosphere.
14. [I.S. EN ISO 11621:2005](#) - Gas cylinders - Procedures for change of gas service.
15. [I.S. EN ISO 11623:2023](#) - Gas cylinders - Composite cylinders and tubes - Periodic inspection and testing (ISO 11623:2023).
16. [I.S. EN ISO 18119:2018/A2:2024](#) - Gas cylinders - Seamless steel and seamless aluminium-alloy gas cylinders and tubes - Periodic inspection and testing – Amendment 2 (ISO 18119:2018/Amd 2:2024).
17. [I.S. EN ISO 12209:2013](#) - Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air (ISO 12209:2013).
18. [I.S. EN 12245:2022](#) - Transportable gas cylinders - Fully wrapped composite cylinders.
19. [I.S. EN 12257:2002](#) - Transportable gas cylinders - Seamless, hoop-wrapped composite cylinders.
20. [I.S. EN ISO 13341:2010](#) - Gas cylinders - Fitting of valves to gas cylinders (ISO 13341:2010).
21. [I.S. EN ISO 13769:2018](#) - Gas cylinders - Stamp marking (ISO 13769:2018).

Diving Accessories/Diving Equipment

1. [I.S. EN 1972:2015](#) - Diving equipment - Snorkels - Safety requirements and test methods.
2. [I.S. EN 13319:2000](#) - Diving accessories - Depth gauges and combined depth and time measuring devices - Functional and safety requirements - Test methods.
3. [I.S. EN 16804:2015](#) - Diving equipment - Diving open heel fins - Requirements and test methods.
4. [I.S. EN 16805:2015](#) - Diving equipment - Diving mask - Requirements and test methods.

Diving Breathing Apparatus

1. [I.S. EN 250:2014](#) - Respiratory equipment – Open-circuit self-contained compressed air diving apparatus - Requirements, testing and marking.
2. [I.S. EN 13949:2003](#) - Respiratory Equipment – Open-circuit self-contained diving apparatus for use with compressed nitrox and oxygen - Requirements, testing, marking.

3. [I.S. EN 14143:2013](#) - Respiratory equipment - Self-contained re-breathing diving apparatus.
4. [I.S. EN 15333-1:2008](#) - Respiratory equipment - Open-circuit umbilical supplied compressed gas diving apparatus - Part 1: Demand apparatus.
5. [I.S. EN 15333-2:2009](#) - Respiratory equipment - Open-circuit umbilical supplied compressed gas diving apparatus - Part 2: Free flow apparatus.

Diving Suits

1. [I.S. EN 14225-1:2017](#) - Diving suits - Part 1: Wet suits - Requirements and test methods.
2. [I.S. EN 14225-2:2017](#) - Diving suits - Part 2: Dry suits - Requirements and test methods.
3. [I.S. EN 14225-3:2017](#) - Diving suits - Part 3: Actively heated or cooled suit systems and components - Requirements and test methods.

Hyperbaric Welding

1. [I.S. EN ISO 15618-1:2016](#) - Qualification testing of welders for under-water welding - Part 1: Hyperbaric wet welding (ISO 15618-1:2016).
2. [I.S. EN ISO 15618-2:2002](#) - Qualification testing of welders for under-water welding - Part 2: Diver-welders and welding operators for hyperbaric dry welding.

Recreational Diving

1. [I.S. EN ISO 11121:2017](#) - Recreational diving services - Requirements for introductory programmes to SCUBA diving (ISO 11121:2017).
2. [I.S. EN ISO 13293:2012](#) - Recreational diving services - Requirements for gas blender training programmes (ISO 13293:2012).
3. [I.S. EN ISO 21416:2019](#) - Recreational diving services - Requirements and guidance on environmentally sustainable practices in recreational diving (ISO 21416:2019).
4. [I.S. EN ISO 21417:2019](#) - Recreational diving services - Requirements for training on environmental awareness for recreational divers (ISO 21417:2019).
5. [EN ISO 24801-1:2014](#) - Recreational diving services - Requirements for the training of recreational SCUBA divers - Part 1: Level 1-Supervised diver (ISO 24801-1:2014).
6. [I.S. EN ISO 24801-2:2014](#) - Recreational diving services - Requirements for the training of recreational SCUBA divers - Part 2: Level 2 - Autonomous diver (ISO 24801-2:2014).
7. [I.S. EN ISO 24801-3:2014](#) - Recreational diving services - Requirements for the training of recreational SCUBA divers - Part 3: Level 3 - Dive leader (ISO 24801-3:2014).
8. [I.S. EN ISO 24802-1: 2014](#) - Recreational diving services - Requirements for the training of SCUBA instructors - Part 1: Level 1 (ISO 24802-1:2014).
9. [I.S. EN ISO 24802-2:2014](#) - Recreational diving services - Requirements for the training of SCUBA instructors - Part 2: Level 2 (ISO 24802-2:2014).
10. [I.S. EN ISO 24803:2017](#) - Recreational diving services - Requirements for recreational diving providers (ISO 24803:2017).

11. [I.S. EN ISO 24804:2022/A11:2024](#) - Recreational diving services - Requirements for rebreather diver training - No-decompression diving.
12. [I.S. EN ISO 24805:2022/A11:2024](#) - Recreational diving services - Requirements for rebreather diver training - Decompression diving to 45 m.
13. [I.S. EN ISO 24806:2023](#) Recreational diving services - Requirements for rebreather diver training - Decompression diving to 60 m (ISO 24806:2023).
14. [I.S. EN ISO 24807:2024](#)- Recreational diving services - Requirements for rebreather diver training - Decompression diving to 100 m (ISO 24807:2023).
15. [I.S. EN ISO 24808:2024/A11:2024](#) Recreational diving services - Requirements for rebreather instructor training.

Scientific Diving

1. [I.S. EN ISO 8804-1:2024](#) Requirements for the training of scientific divers - Part 1: Scientific divers (ISO 8804-1:2024).
2. [I.S. EN ISO 8804-2:2024](#) Requirements for the training of scientific divers - Part 2: Advanced scientific divers (ISO 8804-2:2024).
3. [I.S. EN ISO 8804-3:2024](#) Requirements for the training of scientific divers - Part 3: Scientific diving project leader (ISO 8804-3:2024).

British Standards

The following is a non-exhaustive list of British Standards that are also relevant to diving and work tasks carried out underwater.

Carbon Dioxide Absorbent Materials

1. [BS 8618:2015](#) - Granular carbon dioxide (CO₂) absorbent materials for life support, diving, hyper- and hypobaric applications. Specification.

Diving Accessories

1. [24/30488605 DC BS ISO 18527-3:2020/Amd 1](#) – Eye and face protection for sports use – Part 3. Requirements and test methods for eyewear intended to be used for surface swimming. Amendment 1.

Diving Breathing Apparatus

1. [BS 8457:2016](#) - Respiratory equipment. Breathing gas demand regulator used for diving to depths greater than 50 metres. Requirements and test methods.

Diving Cylinders

1. [BS 5045-7:2000](#) - Transportable gas containers - Specification for seamless steel gas containers of water capacity 0.5L up to 15L for special portable applications.
2. [BS 5045-8:2000](#) - Transportable gas containers - Specification for seamless aluminium alloy gas containers of water capacity 0.5 L up to 15 L and up to 300 bar charged pressure at 15°C for special portable application.

Hyperbaric Welding

1. [BS 4515-1:2009](#) - Specification for welding of steel pipelines on land and offshore - Carbon and carbon manganese steel pipelines.
2. [BS 4515-2:2009](#) - Specification for welding of steel pipelines on land and offshore - Duplex stainless steel pipelines.

Oxygen Cleaning Standard

1. [BS IEC 60877: 1999](#) – Procedures for ensuring the cleanliness of industrial-process measurement and control equipment in oxygen service.

ISO Standards

Recreational Diving

1. [ISO 11107:2009](#) - Recreational Diving Services - Requirements for training programmes on enriched air nitrox (EAN) diving.