



BSI Standards Publication

Ships and Marine Technology — Virtual reality and simulator training equipment and systems for lifesaving appliances and arrangements

National foreword

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The UK participation in its preparation was entrusted to Technical Committee SME/32, Ships and marine technology - Steering committee.

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Published by BSI Standards Limited 2023

ISBN 978 0 539 15538 9

ICS 47.020.01

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2023.

Amendments/corrigenda issued since publication

Date	Text affected
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INTERNATIONAL STANDARD

ISO
5476

First edition
2023-02-08

Ships and marine technology — Virtual reality and simulation training systems for lifesaving appliances and arrangements

Navires et technologie maritime — Systèmes de formation en réalité virtuelle et en simulation pour engins et dispositifs de sauvetage



Reference number
ISO 5476:2023(E)
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Foreword

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This document was prepared by Technical Committee ISO/TC 8, *Ships and Marine Technology*, Subcommittee SC 1, *Maritime safety*.

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Introduction

This document provides the criteria for how virtual reality (VR) and simulator technologies can support training and maintenance of lifesaving appliances such as those required by the International Maritime Organization (IMO) International Convention on the Safety of Life at Sea of 1974 (SOLAS 74), Chapter III.

The use of VR and simulator technology is already a mainstay in many traditional maritime schools for bridge management and navigation, and the market is growing for this type of training specific to lifesaving appliances (LSA) installed onboard vessels, mobile offshore drilling units (MODUs) and offshore installations. Through interactions with the virtual world, students develop knowledge, skills, and attitudes related to a wide array of competencies.

This document supports the VR and simulator equipment used in training and drills for operators and maintainers of LSA, where “live” training with the LSA is limited or restricted due to operational factors, company policies, inclement weather, sea-state, operating schedules and port restrictions. This is particularly advantageous for the mariners undergoing pre-arrival training to their next assignment as well as for onboard survival craft and associated appliances and arrangements such as free-fall lifeboats and davit-launched liferafts that are traditionally limited in their “live” training usage.

Additionally, LSA that are technologically advanced and novel may not be practicable for both live training and traditional deployment frequencies. Due to the nature of such alternative designs and arrangements, the need for VR and simulator training equipment for these types of LSA is particularly valuable to provide the necessary, consistent training frequency and familiarity for the mariners who operate them.

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