



International

This is a preview of ISO 15544:2024. [Click here to purchase the full version from the ANSI store.](#)

Oil and gas industries — Offshore production installations — Requirements and guidelines for emergency response

*Industries du pétrole et du gaz — Installations de production
en mer — Exigences et lignes directrices pour les interventions
d'urgence*

ISO 15544

**Second edition
2024-06**

This is a preview of ISO 15544:2024. [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of ISO 15544:2024. [Click here to purchase the full version from the ANSI store.](#)

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	5
5 Objectives	5
6 Emergency response strategy	6
6.1 Objectives.....	6
6.2 Functional requirements and guidelines.....	6
7 Emergency response plan	8
7.1 Objective.....	8
7.2 Functional requirements and guidelines.....	8
8 Command and control	9
8.1 Objectives.....	9
8.2 Functional requirements.....	9
9 Detection of the need for emergency response	10
9.1 Objective.....	10
9.2 Functional requirements and guidelines.....	10
10 Competence	11
10.1 Objectives.....	11
10.2 Functional requirements and guidelines.....	11
11 Maintenance of emergency response equipment	12
11.1 Objective.....	12
11.2 Functional requirements and guidelines.....	12
12 Communications	13
12.1 Objectives.....	13
12.2 Functional requirements and guidelines.....	13
13 Escape, refuge, evacuation and rescue	14
13.1 Objectives.....	14
13.2 Functional requirements and guidelines.....	14
14 Environmental emergency response	17
14.1 Objective.....	17
14.2 Functional requirements and guidelines.....	17
15 Medical emergency response	17
15.1 Objectives.....	17
15.2 Functional requirements and guidelines.....	18
Annex A (informative) Guidelines on the development and assessment of an emergency response strategy	19
Annex B (informative) Guidelines on emergency response plans	23
Annex C (informative) Guidelines on detection	29
Annex D (informative) Guidelines on competence	31
Annex E (informative) Guidelines on communication	33
Annex F (informative) Guidelines on escape, refuge, evacuation and rescue	35
Bibliography	41

This is a preview of ISO 15544:2024. [Click here to purchase the full version from the ANSI store.](#)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*, Subcommittee SC 6, *Process equipment, piping, systems, and related safety*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 12, *Oil and gas industries including lower carbon energy*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 15544:2000), which has been technically revised. It also incorporates the Amendment ISO 15544:2000/Amd.1:2009.

The main changes are as follows:

- clarifications of requirements;
- editorial updates, including a merge of requirements and guidelines into one subclause for each clause;
- terms and definitions and abbreviations have been updated;
- several recommendations have been changed to requirements based on operational experiences;
- Annex G has been removed and references are made to IOGP guidelines,^[10] References [11] and [12].

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This is a preview of ISO 15544:2024. [Click here to purchase the full version from the ANSI store.](#)

Successful safety and environmental protection during the recovery of hydrocarbon resources requires a structured approach to be applied to the identification and assessment of the hazards present during the various phases in the lifecycle of an offshore installation. These principles also apply to the development of emergency response strategy, emergency response measures and procedures. Understanding of the hazards can be achieved by application of ISO 17776,^[6] which gives guidelines for hazard identification and assessment for offshore installations.

The content in this document on escape, refuge, evacuation, recovery and rescue is consistent with the content of ISO 13702^[4] but addresses in more detail how these aspects are built into development of emergency response measures.

This document has been prepared primarily to assist in the development of new installations. Retrospective application of this document is only relevant where it is reasonable to do so. During the planning of a major change to an installation there can be more opportunities to implement the requirements, and a review of this document enables identification of clauses which can be practically utilized in the change.

This document is based on an approach where the selection of measures for emergency response is determined by an evaluation of hazards on the offshore installation. The methodologies employed in this assessment and the resultant recommendations differ depending on the complexity of the production process and facilities, type of facility (i.e. open or enclosed), number of POB, and the environmental conditions associated with the location of operation.

The principal objectives of this document are to describe both the approach to be used and important considerations in determining the emergency response measures that are required on an offshore installation to:

- a) protect people;
- b) minimize impact on the environment;
- c) minimize impact on assets and operations.

The requirements in [Clauses 6](#) to [15](#) are arranged as follows.

- Objectives identify the goals to be achieved by the emergency response measures being described.
- Functional requirements and guidelines represent the minimum conditions to meet the stated objectives. The functional requirements are performance-orientated measures and, as such, are applicable to the variety of offshore installations utilized for the development of hydrocarbon resources throughout the world.
- The provisions describe recognized practices for consideration in developing the measures for emergency response.
- Functional requirements are supplemented by guidelines in developing the measures for emergency response in [Annexes A](#) to [F](#). The guidelines and annexes are intended for use in conjunction with requirements, industry standards and individual company philosophy, to determine the measures that are necessary for emergency response.