



**International
Standard**

ISO 13702

**Oil and gas industries — Control
and mitigation of fires and
explosions on offshore production
installations — Requirements and
guidelines**

*Industries du pétrole et du gaz — Contrôle et atténuation des
feux et des explosions dans les installations en mer — Exigences
et lignes directrices*

**Third edition
2024-03**



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

Contents

	Page
Foreword	v
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	5
5 Fire and explosion evaluation and risk management	6
5.1 Management system.....	6
5.2 Risk assessment and the risk management framework.....	6
5.3 Risk assessment process.....	6
5.4 Hazard identification.....	6
5.5 Risk analysis.....	7
5.6 Risk evaluation.....	7
5.7 Risk treatment.....	7
5.7.1 General.....	7
5.7.2 Prioritization of risk treatment measures.....	8
5.8 Risk treatment in the context of offshore oil and gas operations.....	8
5.8.1 General.....	8
5.8.2 Design loads.....	10
5.8.3 Fire and explosion strategy and performance standards.....	10
5.8.4 Verification.....	11
6 Installation layout	11
6.1 Objectives.....	11
6.2 Functional requirements.....	11
7 Emergency shutdown systems and blowdown	12
7.1 Objective.....	12
7.2 Functional requirements.....	12
8 Control of ignition	13
8.1 Objective.....	13
8.2 Functional requirements.....	13
9 Control of spills	13
9.1 Objective.....	13
9.2 Functional requirements.....	13
10 Emergency power systems	13
10.1 Objective.....	13
10.2 Functional requirements.....	14
11 Fire and gas (F&G) detection systems	14
11.1 Objectives.....	14
11.2 Functional requirements.....	14
12 Active fire protection	15
12.1 Objectives.....	15
12.2 Functional requirements.....	15
13 Passive fire protection	16
13.1 Objective.....	16
13.2 Functional requirements.....	16
14 Explosion mitigation and protection measures	17
14.1 Objective.....	17
14.2 Functional requirements.....	17