



NSAI
Standards

Irish Standard Recommendation
S.R. CEN ISO/TS 17969:2017

Petroleum, petrochemical and natural gas industries - Guidelines on competency management for well operations personnel (ISO/TS 17969:2017)

S.R. CEN ISO/TS 17969:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

CEN ISO/TS 17969:2017

Published:

2017-12-13

*This document was published
under the authority of the NSAI
and comes into effect on:*

2017-12-31

ICS number:

03.100.30

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

S.R. CEN ISO/TS 17969:2017 is the adopted Irish version of the European Document CEN ISO/TS 17969:2017, Petroleum, petrochemical and natural gas industries - Guidelines on competency management for well operations personnel (ISO/TS 17969:2017)

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

TECHNICAL SPECIFICATION

CEN ISO/TS 17969

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

December 2017

ICS 03.100.30

Supersedes CEN ISO/TS 17969:2015

English Version

**Petroleum, petrochemical and natural gas industries -
Guidelines on competency management for well
operations personnel (ISO/TS 17969:2017)**

Industries du pétrole, de la pétrochimie et du gaz
naturel - Lignes directrices sur la gestion des
compétences du personnel d'exploitation des puits
(ISO/TS 17969:2017)

Erdöl-, petrochemische und Erdgasindustrie -
Leitlinien bezüglich der Kompetenz von Personal
(ISO/TS 17969:2017)

This Technical Specification (CEN/TS) was approved by CEN on 4 November 2017 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

CEN ISO/TS 17969:2017 (E)

Contents	Page
European foreword.....	3

European foreword

This document (CEN ISO/TS 17969:2017) has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" in collaboration with Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" the secretariat of which is held by CYS.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN ISO/TS 17969:2015.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO/TS 17969:2017 has been approved by CEN as CEN ISO/TS 17969:2017 without any modification.

This page is intentionally left blank

TECHNICAL SPECIFICATION

**ISO/TS
17969**

Second edition
2017-11

Petroleum, petrochemical and natural gas industries — Guidelines on competency management for well operations personnel

*Industries du pétrole, de la pétrochimie et du gaz naturel —
Lignes directrices sur la gestion des compétences du personnel
d'exploitation des puits*



Reference number
ISO/TS 17969:2017(E)

© ISO 2017

ISO/TS 17969:2017(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Competency management system	3
4.1 General.....	3
4.2 Benefits of a CMS.....	3
4.3 Comparison of a CMS with an appraisal system	3
4.4 Development of a CMS.....	4
4.4.1 CMS cycle.....	4
4.4.2 Phase 1 — Establish requirements for the CMS.....	5
4.4.3 Phase 2 — Design the CMS.....	6
4.4.4 Phase 3 — Implement the CMS.....	7
4.4.5 Phase 4 — Maintain and develop competence	8
4.4.6 Phase 5 — Verify, audit and review the CMS.....	10
5 Application of CMS requirements to well operations personnel	11
5.1 General.....	11
5.2 Recommended risk-based approach for well operations	12
5.3 Competency model.....	13
5.3.1 Well competency catalogue	13
5.3.2 Proficiency levels.....	15
5.3.3 Competency profile.....	16
5.4 Team competence.....	16
5.5 Leadership skills.....	16
5.6 Contract personnel.....	17
5.7 Roadmap to ensure competency	17
6 Examples of competency profiles	19
Annex A (informative) Example competency assessment information	20
Annex B (informative) Example of competency profile for drilling supervisor	24
Annex C (informative) Example of competency profile for senior drilling engineer	25
Annex D (informative) Example of competency profile for well examiner	26
Annex E (informative) Example of competency profile for operations geologist	27
Bibliography	28

ISO/TS 17969:2017(E)

Foreword

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 documents 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html

This document was prepared by ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*.

This second edition cancels and replaces the first edition (ISO/TS 17969:2015), which has been revised to incorporate the agreed changes that were mistakenly not taken into account in the publication of the first edition.

Petroleum, petrochemical and natural gas industries — Guidelines on competency management for well operations personnel

1 Scope

The purpose of this document is to help members of the oil and gas industry develop, implement, maintain and improve their own competency management systems (CMS) for well operations personnel. This document supports competency management general principles which can be applied to any operation within the industry.

The annexes to this document list example competence profiles for personnel responsible for well integrity. [Annex A](#) includes an example worksheet which can be used in performing a competency assessment, to help record the assessment results versus expectation, as well as the resulting action plan to address any gaps identified.

This document is applicable to all operators, service companies and drilling contractors working on wells and well operations.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

competence

ability to undertake responsibilities and to perform activities to a recognised standard on a regular, repeatable basis

Note 1 to entry: Competence is a combination of knowledge, practical and thinking skills, and a person's behaviour.

Note 2 to entry: Standards may be company specific.

EXAMPLE 1 McCoy's Law: competency = knowledge × skills × behaviours.

EXAMPLE 2 Bloom's taxonomy: competency = knowledge × skills × (technical + ability).

3.2

competence assessment

process of judging evidence of an individual's performance against agreed competence requirements

Note 1 to entry: The result of such an assessment, potentially in combination with other factors such as work experience, will determine whether that individual has demonstrated competence and to which proficiency level.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-