



**BSI Standards Publication**

# **Petroleum and natural gas industries — Specific requirements for offshore structures**

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Part 5: Weight management

## National foreword

This British Standard is the UK implementation of EN ISO 19901-5:2021. It is identical to ISO 19901-5:2021. It supersedes BS EN ISO 19901-5:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/525/12, Design of offshore structures.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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## Petroleum and natural gas industries - Specific requirements for offshore structures - Part 5: Weight management (ISO 19901-5:2021)

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

## European foreword

This document (EN ISO 19901-5:2021) 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 NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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## Endorsement notice

The text of ISO 19901-5:2021 has been approved by CEN as EN ISO 19901-5:2021 without any modification.

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## Foreword

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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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 7, *Offshore structures*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 12, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 19901-5:2016), which has been technically revised.

The main changes are as follows:

- part title changed to "Weight Management";
- document restructured and columnization removed;
- weight control classes removed;
- requirements for weight management for all project phases implemented;
- annexes deleted or relocated to body of document:
  - previous Annex A "Weight data sheets – tagged equipment" combined with previous Annex B "Weighing certificates" to create new joined into a new [Annex B](#) "Weighing certificates";
  - previous Annex C "Weight and load budget (WLB) formats and levels" replaced with new [Annex C](#) "Control weights";
  - deleted previous Annex D "Major elements of the weight displacement";
  - information in previous Annex E "Supplier weighing procedure" relocated to [Clause 8](#);
  - deleted previous Annex F "Guidelines for displacement measurement of floating facilities";



- information in previous Annex G “Requirements for weight control during operations” relocated to [Clause 7](#);
  - information in previous Annex H “Requirements for topsides weight estimation — New builds/ green field” relocated to [Clause 7](#);
  - information in previous Annex I “Executive summary description” relocated to [Clause 7](#);
  - replaced previous Annex J “Weighing result uncertainty” with [Annex F](#) “Weighing result uncertainty”;
  - previous Annex K “Weight control database structure” replaced with new [Annex G](#) “Weight database structure”.
- Annexes added:
- [Annex A](#) “Commentary”;
  - [Annex D](#) “Variable weight”;
  - [Annex E](#) “Example decision-making RAPID matrix”;
  - [Annex H](#) “Weight of concrete structures”;
  - [Annex I](#) “Coordinate systems”;
  - [Annex J](#) “Weight allowances and reserves”;
  - [Annex K](#) “Weight management competencies”.

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