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Industrija za predelavo nafte in zemeljskega plina - Plavajoče vrtalne ploščadi - 1. del: V obliki ladje, pol pod vodo, stranice in valjaste strukture s plitvim ugrezom (ISO 19904-1:2019)

Petroleum and natural gas industries - Floating offshore structures - Part 1: Ship-shaped, semi-submersible, spar and shallow-draught cylindrical structures (ISO 19904-1:2019)

Erdöl- und Erdgasindustrie - Schwimmende Offshore-Anlagen - Teil 1: Produktions- und Lagerungsanlagen außer Tension-Leg-Anlagen (ISO 19904-1:2019)

Industries du pétrole et du gaz naturel - Structures en mer flottantes - Partie 1: Unités monocoques, unités semi-submersibles et unités spars (ISO 19904-1:2019)

Ta slovenski standard je istoveten z: EN ISO 19904-1:2019

ICS:

75.180.10	Oprema za raziskovanje, vrtanje in odkopavanje	Exploratory, drilling and extraction equipment
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Petroleum and natural gas industries - Floating offshore structures - Part 1: Ship-shaped, semi-submersible, spar and shallow-draught cylindrical structures (ISO 19904-1:2019)

Industries du pétrole et du gaz naturel - Structures en mer flottantes - Partie 1: Unités monocoques, unités semi-submersibles et unités spars (ISO 19904-1:2019)

Erdöl- und Erdgasindustrie - Schwimmende Offshore-Anlagen - Teil 1: Schiffsförmige, teilversenkbare Holme und zylindrische Anlagen mit geringem Tiefgang (ISO 19904-1:2019)

This European Standard was approved by CEN on 4 May 2019.

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European foreword

This document (EN ISO 19904-1:2019) 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of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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INTERNATIONAL
STANDARD

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Second edition
2019-05

**Petroleum and natural gas
industries — Floating offshore
structures —**

Part 1:
**Ship-shaped, semi-submersible,
spar and shallow-draught cylindrical
structures**

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*Industries du pétrole et du gaz naturel — Structures en mer
flottantes*

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Partie 1: Unités monocoques, unités semi-submersibles et unités spars



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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).

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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*.

This second edition cancels and replaces the first edition (ISO 19904-1:2006), which has been technically revised. The main changes compared to the previous edition are as follows:

- title has been modified by replacing 'monohulls' with 'ship-shaped' and adding 'shallow-draft cylindrical structures';
- list of normative references ([Clause 2](#)) has been expanded;
- some definitions have changed and some new terms and definitions ([Clause 3](#)) have been added;
- subclause on planning requirements ([5.3](#)) has been expanded by addressing inspection and maintenance philosophy ([5.3.5](#)), documentation ([5.3.6](#)), extreme weather preparedness ([5.3.7](#)), and disconnectible floating platforms ([5.3.8](#));
- subclause on use for project application ([5.4.2](#)) has been expanded with a paragraph regarding documentation for disconnectable floating platforms;
- new subclause on topsides arrangement and layout ([5.5.9](#)) has been added;
- subclause on air gap ([8.10](#)) has been renamed to air gap and wave crest assessment, and a new subclause addressing wave crest effects ([8.10.2](#)) has been added;
- subclause on material ([9.9](#)) has been expanded by addressing cement grout ([9.9.5](#)) and elastomeric materials ([9.9.6](#));
- subclause on corrosion protection of steel ([9.10](#)) has been rewritten substantially;
- subclause on fabrication and constructions ([9.11](#)) has been expanded by addressing fabrication details ([9.11.3](#)) and welding ([9.11.4](#));