# ISO Standards for use in the oil & gas industry

ISO 10418 Process safety systems (Rev) ISO 10419 Replaced by API Spec 6AV2 ISO 10423 Wellhead & christmas tree equipment ISO 12489 Reliability modelling/safety systems ISO 13534 Shallow gas diverter equipment ISO 13533 Drill-through equipment (BOPs) ISO 13534 Hoisting equipment – care/maintenance ISO 13535 Hoisting equipment – specification ISO 13626 Drilling and well-servicing structures ISO 13702 Control and mitigation of fires and explosions ISO 13703 Offshore piping systems ISO 14692-1 GRP piping vocabulary, symbols, applications and materials ISO 14692-2 GRP piping qualification and manufacture ISO 14692-3 GRP piping system design ISO 14692-4 GRP piping fabrication, installation and operation ISO 14693 Drilling equipment	ISO 15138 Heating, ventilation and air-conditioning (Rev) ISO 15156 Cracking-resistant materials for use in H <sub>2</sub> S environments, Parts 1-3 ISO 15643 Emergency response IsO 15644 Emergency response IsO 16901 Risk assessment in the design of onshore LNG installations ISO 16901 Characteristics of LNG influencing design and material selection ISO 16904 LNG Marine Transfer Arms ISO 17777 Unconventional LNG transfer systems ISO 17778 Metal ball valves ISO 17778 Duplex stainless steel materials testing ISO 17781 Duplex stainless steel materials testing ISO 17782 Qualification of manufacturers of special materials (New) ISO 17945 Materials resistant to sulfide stress cracking ISO 17946 Guidelines on competency for personnel ISO 18683 Systems and installations for supply of LNG as fuel to ships ISO 19277 Qualification testing for coating under insulation (New) ISO 20321 Production assurance and reliability management (Rev) ISO 23936-2 Elastomers ISO 23936-2 Elastomers ISO 23936-2 Elastomers ISO 27469 Method of test for offshore fire dampers ISO 29001 Sector-specific quality management systems  ISO 13624 Marine drilling riser systems, Parts 1-2 ISO 13625 Marine drilling riser couplings ISO 19901-7 Stationkeeping systems	ISO 10855-1 ISO 10855-2 Offshore containers design, manufacture and marking (New) ISO 10855-3 Offshore containers periodic inspection (New) Modular drilling rigs Elastomeric coating of risers - polychloroprene or EPDM General requirements for offshore structures (Rev) ISO 19901-1 ISO 19901-2 ISO 19901-2 ISO 19901-3 ISO 19901-3 ISO 19901-5 Usinci design procedures and criteria ISO 19901-6 ISO 19901-6 ISO 19901-7 ISO 19901-8 ISO 19901-9 ISO 19901-9 ISO 19901-9 ISO 19901-9 ISO 19901-9 ISO 19902 ISO 19903 ISO 19904 ISO 19904 ISO 19905-1 ISO 19905-1 ISO 19905-1 ISO 19905-1 ISO 19905-1 ISO 19905-2 ISO 19905-3 ISO 19905-3 ISO 19906 ISO 35101 Arctic Operations Escape, evacuation and rescue (New) ISO 35104 Arctic Coperations - Ice management (New) ISO 35105 Arctic material (New) ISO 35106 Arctic metocean, ice and seabed data	ISO 10428   Suck   ISO 10431   Purr   ISO 10434   Bolt   ISO 10436   Repl   ISO 10437   Specific   ISO 10438   Lubi   ISO 10449-2   Rota   ISO 10440-2   Rota   ISO 10440-1   Rota   ISO 10440-1   Rota   ISO 10441   Flexi   ISO 10442   Inter   ISO 102211   Spiri   ISO 13631   Reci   ISO 13631   Reci   ISO 13704   Calc   ISO 13705   Firet   ISO 13705   Firet   ISO 13707   Reci   ISO 14691   Flexi   ISO 10438   Reci   ISO 14691   Flexi   ISO 14691   Flexi   ISO 10438   Flexi	sturbines – procurement cker rods inping unites ted bonnet steel gate valves blaced by API Std 611 cial-purpose steam turbines virication, shaft-sealing and control-oil systems, Parts 1–4 itrifugal compressors ary-type positive-displacement process compressors (oil-free) ary PD packaged air compressors ral plate heat exchangers prain heat exchangers prin heat exchangers prin heat exchangers prin heat exchangers iprocating gas compressors in speed enclosed gear units culation of heater tube thickness and heaters for general service cooled heat exchangers itrifugal pumps iprocating compressors intrifugal pumps iprocating positive displacement pumps sible couplings – general at exchangers, Parts 1-2 ing	ISO 15761 Steel valves DN 100 and smaller ISO 16812 Shell & tube heat exchangers (Rev) ISO 16901 Risk assessment of onshore LNG installations Internal coating and lining of steel storage tanks Unconventional LNG transfer systems Metal ball valves ISO 17348 Materials Selection in CO <sub>2</sub> Environment for casing, tubing and downhole equipments ISO 17349 Streams containing high levels of CO <sub>2</sub> ISO 18624 Guidance for design of LNG storage tanks (New) ISO 20088-1 Resistance to cryogenic spillage of insulation materials – Liquid phase ISO 20088-2 Resistance to cryogenic spillage of insulation materials – Vapor phase (New) ISO 20088-3 Resistance to cryogenic spillage of insulation materials – High pressure jet exposure (New) ISO 20257-1 General requirements for FSRU (New) ISO 20257-2 Specific requirements for FSRU (New) ISO 20257-5 Specific requirements for FSRU (New) ISO 23251 Centriugal and rotary pumps shaft sealing Replaced by API Std 521 (Rev) ISO 25457 Composite repairs for pipework Flares details Composite repairs for pip
ISO 13628-2 Subsea flexible pipe systems ISO 13628-3 Subsea TFL pumpdown systems ISO 13628-4 Subsea wellhead and tree equipment	ISO 13628-9 ROT intervention systems ISO 13628-10 Bonded flexible pipe ISO 13628-11 Flexible pipe systems for subsea and marine applications ISO 13628-15 Subsea structures and manifolds			ISO 3183 ISO 12490 Actuation, mechanical integrity and sizing for pipeline valves ISO 12736 Wet thermal insulation coatings ISO 13623 Pipeline life extension Pipeline transportation systems ISO 13623 Pipeline transportation systems ISO 13623 Pipeline transportation systems ISO 13847 Welding of pipelines ISO 14723 Subsea pipeline valves ISO 15589-1 Cathodic protection of on-land pipelines ISO 15590-2 Pipeline induction bends (Rev) ISO 15590-3 Pipeline fittings Pipeline flanges ISO 15590-4 Pipeline flanges ISO 15590-4	ISO 16440   Steel cased pipelines

ISO 10400	Calculations for OCTG performance properties (Re
ISO 10405	Care/use of casing/tubing
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ISO 10414-1	Field testing of water-based fluids
ISO 10414-2	Field testing of oil-based drilling fluids
ISO 10416	Drilling fluids – lab testing
ISO 10417	Subsurface safety valve systems
ISO 10422	Replaced by API Spec 5B
ISO 10424-1	Rotary drill stem elements

ISO 10424-2 Threading and gauging of connections

ISO 13628-6 Subsea production controls ISO 13628-7 Completion/workover riser system

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ISO 10426-4	Atmospheric foamed cement slurries (Rev)
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150 13085	Tubing aluminium alloy pipes
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ISO 13678	Thread compounds
ISO 13679	Casing and tubing connections testing (Rev)
ISO 13680	CRA seamless tubes for casing & tubing
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ISO 12835 Qualification of casing connections for thermal wells

ISO 11960 Casing and tubing for wells

130 14770	Accessory completion equipment
ISO 15136	Progressing cavity pump systems, Parts 1-2
ISO 15463	Field inspection of new casing, tubing and plain end drill pipe
ISO 15464	Gauging and inspection of threads
ISO 15551-1	Electric submersible pump systems for artificial lift
ISO 15546	Aluminium alloy drill pipe
ISO 16070	Lock mandrels and landing nipples
ISO 16530-1	Well integrity manual
ISO 17078-1	Side-pocket mandrels
ISO 17078-2	Flow control devices for side-pocket mandrels
ISO 17078-3	Latches & seals for side-pocket mandrels & flow control devices
ISO 17078-4	Side-pocket mandrels and related equipment
ISO 17824	Sand control screens
ISO 20312	Design of aluminium drill string
ISO 27627	Aluminium alloy drill pipe thread gauging
ISO 28781	Subsurface tubing mounted formation barriers



#### Standards in purple issued in 2018 Standards in blue are a priority for 2019 issue

These ISO standards, TR and TS (abbreviated titles) are only a core collection of several hundreds of standards available for the oil & gas industry from ABNT, ANSI, API, AS, BSI, CSA, NORSOK, NF, GOST, SAC etc. Some ISO/TC67 standards have been withdrawn and the relevant API standard is referenced above



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# Standards catalogue

**73.060.20** - Manganese ores <sup>®</sup>

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Standard and/or project (31)  \$\begin{align*} \begin{align*} \begi		
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<ul> <li>✓ ISO 310:1992</li> <li>Manganese ores and concentrates Determination of hygroscopic moisture content in analytical samples Gravimetric method</li> </ul>	90.93	ISO/TC 132
<ul> <li>✓ ISO 312:1986</li> <li>Manganese ores Determination of active oxygen content, expressed as manganese dioxide Titrimetric method</li> </ul>	90.93	ISO/TC 132
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<ul> <li>✓ ISO 548:1981</li> <li>Manganese ores Determination of barium oxide content Barium sulphate gravimetric method</li> </ul>	90.93	ISO/TC 132



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	90.93	ISO/TC 132
<ul><li>◆ ISO 549:1981</li><li>Manganese ores Determination of combined water content Gravimetric method</li></ul>		
<ul> <li>❷ ISO 619:1981</li> <li>Manganese ores Determination of chromium content Diphenylcarbazide photometric method and silver persulphate titrimetric method</li> </ul>	90.93	ISO/TC 132
<ul> <li>❷ ISO 4293:1982</li> <li>Manganese ores and concentrates Determination of phosphorus content Extraction-molybdovanadate photometric method</li> </ul>	90.93	ISO/TC 132
<ul> <li>✓ ISO 4295:1988</li> <li>Manganese ores and concentrates Determination of aluminium content Photometric and gravimetric methods</li> </ul>	90.93	ISO/TC 132
⊘ ISO 4296-1:1984 Manganese ores Sampling Part 1: Increment sampling	90.93	ISO/TC 132
<ul><li>✓ ISO 4296-2:1983</li><li>Manganese ores Sampling Part 2: Preparation of samples</li></ul>	90.93	ISO/TC 132
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● ISO/AWI 4298 [Under development]  Manganese ores and concentrates Determination of manganese content Potentiometric method	20.00	ISO/TC 132
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<ul> <li>✓ ISO 5890:1981</li> <li>Manganese ores and concentrates Determination of silicon content Gravimetric method</li> </ul>	90.93	ISO/TC 132
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❷ ISO 7990:1985 Manganese ores and concentrates Determination of total iron content Titrimetric method after reduction and sulfosalicylic acid spectrophotometric method	90.93	ISO/TC 132
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**⊘** ISO 9681:1990 90.93 ISO/TC

Manganese ores and concentrates -- Determination of iron content -- Flame atomic absorption spectrometric method

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# Standards catalogue

# 73.060.99 - Other metalliferous minerals ®

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<ul> <li>❷ ISO 13543:2016</li> <li>Copper, lead, zinc and nickel sulfide concentrates Determination of mass of contained metal in a lot</li> </ul>	60.60	ISO/TC 183
❷ ISO 13545:2000 Lead sulfide contentrates Determination of lead content EDTA titration method after acid digestion	90.93	ISO/TC 183
⊘ ISO 13547-1:2014  Copper, lead, zinc and nickel sulfide concentrates Determination of arsenic Part 1: Iron hydroxide concentration and inductively coupled plasma atomic emission spectrometric method	60.60	ISO/TC 183
<ul> <li>❷ ISO 13547-2:2014</li> <li>Copper, lead, zinc and nickel sulfide concentrates Determination of arsenic Part 2: Acid digestion and inductively coupled plasma atomic emission spectrometric method</li> </ul>	60.60	ISO/TC 183
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❷ ISO 15248:1998 Zinc sulfide concentrates Determination of silver and gold contents Fire assay and flame atomic absorption spectrometric method using scorification or cupellation	90.93	ISO/TC 183
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<ul> <li>O ISO/CD 15661 [Under development]</li> <li>Copper and nickel ores and concentrates Determination of chlorine content -</li> <li>Determination of the total chlorine content</li> </ul>	30.99	ISO/TC 183
❷ ISO/TR 15855:2001 Copper, lead and zinc sulfide concentrates Step-by-step procedure for the testing of static scales	90.60	ISO/TC 183
⊙ ISO/PRF 19976-1 [Under development] Copper, lead and zinc sulfide concentrates Determination of cadmium Part 1: Flame atomic absorption spectrometric method	50.20	ISO/TC 183

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**⊙** ISO/PRF 19976-2 [Under development]

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Copper, lead, and zinc sulfide concentrates -- Determination of cadmium -- Part 2: Acid digestion and inductively coupled plasma atomic emission spectrometric method

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# 73.020 - Mining and quarrying ®

Structures for mine shafts -- Part 3: Sinking stages

Structures for mine shafts -- Part 4: Conveyances

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Including exploration, opening-up, development, working of mineral deposits, drilling, construction of mines, mining operations, processing of minerals, etc.

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equipment ®

Including offshore structures

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<ul> <li>✓ ISO 3977-5:2001</li> <li>Gas turbines Procurement Part 5: Applications for petroleum and natural gas industries</li> </ul>	90.9	3 ISO/TC 192
<b>⊘</b> ISO 6807:2003  Rubber hoses and hose assemblies for rotary drilling and vibration applications. Specification	90.9	2 ISO/TC 45/SC 1
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	90.93 industries Field testing of drilling fluids Part 1:	67/SC 3
	90.60 industries Field testing of drilling fluids Part 2: Oil-	1SO/TC 67/SC 3
⊘ ISO 10416:2008 Petroleum and natural gas	90.93 industries Drilling fluids Laboratory testing	67/SC 3
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● ISO 10418 [Under developed Petroleum and natural gase Process safety systems	ment] 60.00 industries Offshore production installations	1SO/TC 67/SC 6
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⊘ ISO 10424-1:2004 Petroleum and natural gas drill stem elements	90.92 industries Rotary drilling equipment Part 1: Rotary	1SO/TC 67/SC 4



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<ul> <li>◆ ISO 10424-2:2007</li> <li>Petroleum and natural gas industries Rotary drilling equipment Part 2:</li> <li>Threading and gauging of rotary shouldered thread connections</li> </ul>	90.93	ISO/TC 67/SC 4
❷ ISO 10425:2003 Steel wire ropes for the petroleum and natural gas industries Minimum requirements and terms of acceptance	90.20	ISO/TC 105
<ul> <li>❷ ISO 10427-1:2001</li> <li>Petroleum and natural gas industries Equipment for well cementing Part 1:</li> <li>Casing bow-spring centralizers</li> </ul>	90.93	ISO/TC 67/SC 3
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<ul> <li>✓ ISO 10855-3:2018</li> <li>Offshore containers and associated lifting sets Part 3: Periodic inspection, examination and testing</li> </ul>	60.60	ISO/TC 67/SC 7
⊘ ISO 11960:2014 Petroleum and natural gas industries Steel pipes for use as casing or tubing for wells	90.92	ISO/TC 67/SC 5



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⊙ ISO/DIS 11960 [Under development] Petroleum and natural gas industries Steel pipes for use as casing or tubing for wells	40.60	ISO/TC 67/SC 5
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<ul> <li>❷ ISO 12736:2014</li> <li>Petroleum and natural gas industries Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures</li> </ul>	60.60	ISO/TC 67/SC 2
<ul><li>◆ ISO/NP TS 12835 [Under development]</li><li>Qualification of casing connections for thermal wells</li></ul>	10.99	ISO/TC 67/SC 5
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<b>⊙</b> ISO 13500:2008/Cor 1:2009	60.60	ISO/TC 67/SC 3
<ul> <li>◆ ISO 13501:2011</li> <li>Petroleum and natural gas industries Drilling fluids Processing equipment evaluation</li> </ul>	90.60	ISO/TC 67/SC 3
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<ul> <li>✓ ISO 13625:2002</li> <li>Petroleum and natural gas industries Drilling and production equipment</li> <li>Marine drilling riser couplings</li> </ul>	90.93	ISO/TC 67/SC 4
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<ul> <li>❷ ISO 13628-1:2005</li> <li>Petroleum and natural gas industries Design and operation of subsea</li> <li>production systems Part 1: General requirements and recommendations</li> </ul>	90.93	ISO/TC 67/SC 4
<b>⊘</b> ISO 13628-1:2005/Amd 1:2010 Revised Clause 6	60.60	ISO/TC 67/SC 4
<ul> <li>❷ ISO 13628-2:2006</li> <li>Petroleum and natural gas industries Design and operation of subsea production systems Part 2: Unbonded flexible pipe systems for subsea and marine applications</li> </ul>	90.93	ISO/TC 67/SC 4
<b>⊘</b> ISO 13628-2:2006/Cor 1:2009	60.60	ISO/TC 67/SC 4
<ul> <li>❷ ISO 13628-3:2000</li> <li>Petroleum and natural gas industries Design and operation of subsea production systems Part 3: Through flowline (TFL) systems</li> </ul>	90.93	ISO/TC 67/SC 4



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	:2010 natural gas industries Desi ems Part 4: Subsea wellhe	-		
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❷ ISO 13678:2010  Petroleum and natural gas industries Evaluation and testing of thread compounds for use with casing, tubing, line pipe and drill stem elements.		ISO/TC 67/SC 5
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<ul> <li>◆ ISO/PRF 13679 [Under development]</li> <li>Petroleum and natural gas industries Procedures for testing casing arconnections</li> </ul>	50.20 nd tubing	ISO/TC 67/SC 5
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• ISO/DIS 13680 [Under development]  Petroleum and natural gas industries Corrosion-resistant alloy seamle products for use as casing, tubing, coupling stock and accessory mater Technical delivery conditions		ISO/TC 67/SC 5
<ul> <li>❷ ISO 13702:2015</li> <li>Petroleum and natural gas industries Control and mitigation of fires a explosions on offshore production installations Requirements and gu</li> </ul>		ISO/TC 67/SC 6
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<b>⊘</b> ISO 13703:2000/Cor 1:2002	60.60	ISO/TC 67/SC 6
⊘ ISO 14310:2008 Petroleum and natural gas industries Downhole equipment Packers bridge plugs	90.93 and	ISO/TC 67/SC 4
<b>⊘</b> ISO 14693:2003  Petroleum and natural gas industries Drilling and well-servicing equip  Output  Description  D	90.93 oment	ISO/TC 67/SC 4
⊘ ISO 14998:2013 Petroleum and natural gas industries Downhole equipment Compleaccessories	90.93 tion	ISO/TC 67/SC 4



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	dustries Offshore production installations s for emergency response	90.93	ISO/TC 67/SC 6
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<b>⊘</b> ISO 17078-1:2004/Amd 1:2010	60.60	ISO/TC 67/SC 4
<ul> <li>❷ ISO 17078-2:2007</li> <li>Petroleum and natural gas industries Drilling and production equipment Part</li> <li>2: Flow-control devices for side-pocket mandrels</li> </ul>	90.93	ISO/TC 67/SC 4
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<ul> <li>✓ ISO 17078-3:2009</li> <li>Petroleum and natural gas industries Drilling and production equipment Part</li> <li>3: Running tools, pulling tools and kick-over tools and latches for side-pocket mandrels</li> </ul>	90.93	ISO/TC 67/SC 4
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<ul> <li>❷ ISO 17776:2016</li> <li>Petroleum and natural gas industries Offshore production installations Major accident hazard management during the design of new installations</li> </ul>	60.60	ISO/TC 67/SC 6
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<ul> <li>❷ ISO 17945:2015</li> <li>Petroleum, petrochemical and natural gas industries Metallic materials resistant to sulfide stress cracking in corrosive petroleum refining environments</li> </ul>	60.60	ISO/TC 67
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⊘ ISO 19900:2013 Petroleum and natural gas industries General requirements for offshore structures	90.92	ISO/TC 67/SC 7
⊙ ISO/FDIS 19900 [Under development] Petroleum and natural gas industries General requirements for offshore structures	50.20	ISO/TC 67/SC 7



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<ul> <li>❷ ISO 19901-1:2015</li> <li>Petroleum and natural gas industries Specific requirements for offshore structures Part 1: Metocean design and operating considerations</li> </ul>		
<ul> <li>❷ ISO 19901-2:2017</li> <li>Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria</li> </ul>	90.92	ISO/TC 67/SC 7
● ISO/AWI 19901-2 [Under development] Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria	20.00	ISO/TC 67/SC 7
❷ ISO 19901-3:2014 Petroleum and natural gas industries Specific requirements for offshore structures Part 3: Topsides structure	60.60	ISO/TC 67/SC 7
<ul> <li>❷ ISO 19901-4:2016</li> <li>Petroleum and natural gas industries Specific requirements for offshore structures Part 4: Geotechnical and foundation design considerations</li> </ul>	60.60	ISO/TC 67/SC 7
❷ ISO 19901-5:2016 Petroleum and natural gas industries Specific requirements for offshore structures Part 5: Weight control during engineering and construction	90.92	ISO/TC 67/SC 7
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<ul> <li>❷ ISO 19901-6:2009</li> <li>Petroleum and natural gas industries Specific requirements for offshore structures Part 6: Marine operations</li> </ul>	60.60	ISO/TC 67/SC 7
<b>⊘</b> ISO 19901-6:2009/Cor 1:2011	60.60	ISO/TC 67/SC 7
❷ ISO 19901-7:2013 Petroleum and natural gas industries Specific requirements for offshore structures Part 7: Stationkeeping systems for floating offshore structures and mobile offshore units	90.93	ISO/TC 67/SC 7
<ul> <li>❷ ISO 19901-8:2014</li> <li>Petroleum and natural gas industries Specific requirements for offshore structures Part 8: Marine soil investigations</li> </ul>	60.60	ISO/TC 67/SC 7



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● ISO/FDIS 19901-9.2 [Under development] Petroleum and natural gas industries Specific requirements for offshore structures Part 9: Structural integrity management	50.20	ISO/TC 67/SC 7
● ISO/DIS 19901-10 [Under development] Petroleum and natural gas industries Specific requirements for offshore structures Part 10: Marine geophysical investigations	40.60	ISO/TC 67/SC 7
❷ ISO 19902:2007 Petroleum and natural gas industries Fixed steel offshore structures	90.92	ISO/TC 67/SC 7
<b>⊘</b> ISO 19902:2007/Amd 1:2013	60.60	ISO/TC 67/SC 7
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❷ ISO 19905-1:2016  Petroleum and natural gas industries Site-specific assessment of mobile offshore units Part 1: Jack-ups	60.60	ISO/TC 67/SC 7
❷ ISO/TR 19905-2:2012 Petroleum and natural gas industries Site-specific assessment of mobile offshore units Part 2: Jack-ups commentary and detailed sample calculation	60.60	ISO/TC 67/SC 7
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⊙ ISO 19906 [Under development] Petroleum and natural gas industries Arctic offshore structures	60.00	ISO/TC 67/SC 7
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<ul> <li>○ ISO/TS 27469:2010</li> <li>Petroleum, petrochemical and natural gas industries - Method of test for fire dampers</li> </ul>	90.92	ISO/TC 67/SC 6
<ul> <li>✓ ISO 27627:2014</li> <li>Petroleum and natural gas industries Aluminium alloy drill pipe thread connection gauging</li> </ul>	90.20	ISO/TC 67
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