

# ISO Update

Supplement to ISOfocus

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January 2019

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# International Standards in process

An International Standard is the result of an agreement between the member bodies of ISO. A first important step towards an International Standard takes the form of a committee draft (CD) - this is circulated for study within an ISO technical committee. When consensus has been reached within the technical committee, the document is sent to the Central Secretariat for processing as a draft International Standard (DIS). The DIS requires approval by at least 75 % of the member bodies casting a vote. A confirmation vote is subsequently carried out on a final draft International Standard (FDIS), the approval criteria remaining the same.

## CD registered

Period from 01 December to 31 December 2018

These documents are currently under consideration in the technical committee.

They have been registered at the Central Secretariat.

TC 5	Ferrous metal pipes and metallic fittings
ISO/CD 10802	Ductile iron pipelines — Hydrostatic testing after installation
TC 6	Paper, board and pulps
ISO/CD 21331	Graphic technology and deinked pulp - Guidance for assessing the deinking performance of printed paper products
TC 17	Steel
ISO/DIS 9647	Steels — Determination of vanadium content — Flame atomic absorption spectrometric method (FAAS)
TC 20	Aircraft and space vehicles
ISO/CD 14222	Space environment (natural and artificial) — Earth upper atmosphere
ISO/CD 14302	Space systems — Electromagnetic compatibility requirements
ISO/CD 24638	Space systems — Pressure components and pressure system integration
TC 22	Road vehicles
ISO/CD 21233	Heavy commercial vehicles and buses — Vehicle dynamics simulation and validation — Closing-curve test
ISO/CD 6621-3	Internal combustion engines — Piston rings — Part 3: Material specifications
ISO/CD 21612	Road vehicles — Crosstalk determination for multi-axis load cell
ISO/DTS 21104	Road vehicles — Liquefied natural gas (LNG) Low pressure refuelling connector — 1,8 MPa connector
TC 24	Particle characterization including sieving
ISO/DTR 22814	Good practice for DLS analysis
TC 34	Food products

ISO/CD 21800	Spices and condiments — Determination of moisture content
ISO/CD 21803	Dried dill — Specification
TC 35	Paints and varnishes
ISO/CD 13885-1	Binders for paints and varnishes — Gel permeation chromatography (GPC) — Part 1: Tetrahydrofuran (THF) as eluent
TC 37	Language and terminology
ISO/CD 21998	Medical/healthcare interpreting
TC 38	Textiles
ISO/CD 1833-1	Textiles — Quantitative chemical analysis — Part 1: General principles of testing
ISO/CD 1833-2	Textiles — Quantitative chemical analysis — Part 2: Ternary fibre mixtures
TC 39	Machine tools
ISO/CD 19085-17	Woodworking machines — Safety requirements — Part 17: Edge-banding machines fed by chain(s)
TC 43	Acoustics
ISO 11202:2010/CD Amd 1	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections — Amendment 1
TC 46	Information and documentation
ISO/CD 22038	Information and documentation — Description and presentation of rights information
ISO/CD 30300	Information and documentation — Records management — Core concepts and vocabulary
TC 59	Buildings and civil engineering works
ISO/CD 19650-3	Organization of information about construction works — Information management using building information modelling — Part 3: Operational phase of assets
TC 61	Plastics
ISO/CD 9772	Cellular plastics — Determination of horizontal burning characteristics of small specimens subjected to a small flame
TC 85	Nuclear energy, nuclear technologies, and radiological protection
ISO/CD 20043-1	Measurement of radioactivity — Guidelines for environmental monitoring for effective dose assessment — Part 1: Planned and existing exposure situation
TC 91	Surface active agents
ISO/CD 21680	Surface active agents — Bio-based surfactants — Requirements and test methods
TC 92	Fire safety
ISO/CD 22899-1	Determination of the resistance to jet fires of passive fire protection materials — Part 1: General requirements
TC 94	Personal safety -- Personal protective equipment
ISO/CD 16073-6	Wildland firefighting personal protective equipment — Requirements and test methods — Part 6: Footwear
TC 98	Bases for design of structures
ISO/CD 13824	Bases for design of structures — General principles on risk assessment of systems involving structures

TC 117 ISO/DTR 16219	Fans Fans — System effect factors	ISO/CD 23458	Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for determining thermal expansion coefficient and residual stress of CVD ceramic coatings
TC 121 ISO/CD 80601-2-87	Anaesthetic and respiratory equipment Medical electrical equipment — Part 2-87: Particular requirements for basic safety and essential performance of high-frequency critical care ventilators	TC 211 ISO/CD 19165-2	Geographic information/Geomatics Geographic information — Preservation of digital data and metadata — Part 2: Content specifications for earth observation data and derived digital products
ISO/CD 15002	Flow-metering devices for connection to terminal units of medical gas pipeline systems	TC 215 ISO/DTS 22077-4	Health informatics Health informatics — Medical waveform format — Part 4: Stress test electrocardiography
ISO 15002:2008/ CD Amd 2	Flow-metering devices for connection to terminal units of medical gas pipeline systems — Amendment 2	ISO/DTR 22272	Health informatics — Methodology for analysis of business and information needs of health enterprises to support standards based architectures
TC 147 ISO/CD 5667-1	Water quality Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques	TC 229 ISO/DTS 10867	Nanotechnologies Nanotechnologies — Characterization of single-wall carbon nanotubes using near infrared photoluminescence spectroscopy
TC 159 ISO/CD TR 9241-100	Ergonomics Ergonomics of human-system interaction — Part 100: Introduction to standards related to software ergonomics	ISO/DTS 11251	Nanotechnologies — Characterization of volatile components in single-wall carbon nanotube samples using evolved gas analysis/gas chromatograph-mass spectrometry
ISO/CD 9241-110	Ergonomics of human-system interaction — Part 110: Interaction principles	ISO/DTS 21346	Nanotechnologies - Characterization of individualized cellulose nanofibril samples
ISO/CD 9241-971	Ergonomics of human system interaction — Part 971: Guidance on physical (tactile/haptic) accessibility	TC 238 ISO/DTS 17225-9	Solid biofuels Solid biofuels — Fuel specifications and classes — Part 9: Graded hog fuel for industrial use
ISO/CD TR 23985	Readability of electronic paper displays (EPD)	TC 249 ISO/CD 21373	Traditional Chinese medicine Traditional Chinese medicine — Minimum requirements for herbal dispensing services
TC 163 ISO/CD 19467-2	Thermal performance and energy use in the built environment Thermal Performance of windows and doors — Determination of solar heat gain coefficient using solar simulator — Part 2: Centre of glazing, normal and off-normal incidence	ISO/CD 22283	Traditional Chinese medicine — Determination of Aflatoxins in natural products by LC-FLD
TC 172 ISO/CD 11979-5	Optics and photonics Ophthalmic implants — Intraocular lenses — Part 5: Biocompatibility	ISO/CD 23193	Traditional Chinese medicine — Lycium barbarum and Lycium chinense fruit
ISO/CD 15004-1	Ophthalmic instruments — Fundamental requirements and test methods — Part 1: General requirements applicable to all ophthalmic instruments	ISO/DTR 23975	Traditional chinese medicine — Priority list for developing standards for single herbal medicines in ISO/TC249
ISO/CD 19980	Ophthalmic instruments — Corneal topographers	TC 264 ISO/CD 21583	Fireworks Firework displays — General guidance
TC 184 ISO/CD 16400-1	Automation systems and integration Automation systems and integration — Equipment behaviour catalogues for virtual production system — Part 1: Overview	TC 265 ISO/CD 27919-2	Carbon dioxide capture, transportation, and geological storage Carbon dioxide capture — Part 2: Evaluation procedure to assure and maintain stable performance of post-combustion CO2 capture plant integrated with a power plant
ISO/CD 22549-1	Assessment on convergence of informatization and industrialization for industrial enterprises — Part 1: Principles and framework	ISO/DTR 27921	Carbon dioxide capture, transport and storage — CO2 stream composition
TC 190 ISO/CD 11063	Soil quality Soil quality — Method to directly extract DNA from soil samples (revision of ISO11063:2012)	TC 282 ISO/CD 23056	Water reuse Water reuse in urban areas - Guidelines for decentralized/onsite water reuse system-- Design principle of a decentralized/onsite system
TC 201 ISO/DTS 25138	Surface chemical analysis Surface chemical analysis — Analysis of metal oxide films by glow-discharge optical-emission spectrometry	ISO/CD 23070	Water Reuse in Urban Areas --Guidelines for reclaimed water treatment — Design principle of a RO desalination system of municipal wastewater
TC 202 ISO/CD 23420	Microbeam analysis Microbeam analysis — Analytical electron microscopy — Method for the determination of energy resolution for electron energy loss spectrum analysis	ISO/CD 20468-3	Guidelines for performance evaluation of treatment technologies for water reuse systems — Part 3: Ozone treatment technology
TC 206 ISO/CD 23102	Fine ceramics Fine ceramics (advanced ceramics, advanced technical ceramics) — Weibull statistics for strength data of porous ceramics	ISO/CD 23043	Evaluation of industrial wastewater treatment technologies for reuse
		ISO/CD 23044	Guidelines for softening and desalination of industrial wastewater for reuse
		TC 292	Security and resilience

ISO/CD 22341	Security and resilience — Protective security — Guidance for security and crime prevention by urban design and management		(Revision of ISO 6414:1982)
TC 298	Rare earth	TC 17	Steel
ISO/CD 22450	Rare earth — Elements Recycling --Communication formats for providing recycling information on rare earth elements in by-products and industrial wastes	ISO/DIS 11971	Steel and iron castings — Visual testing of surface quality
			2019-03-12
			(Revision of ISO 11971:2008)
TC 307	Blockchain and distributed ledger technologies	TC 21	Equipment for fire protection and fire fighting
ISO/CD 23257	Blockchain and distributed ledger technologies — Reference architecture	ISO/DIS 7240-17	Fire detection and fire alarm systems — Part 17: Transmission path isolators
			2019-03-22
JTC 1	Information technology		(Revision of ISO 7240-17:2009)
ISO/IEC 10373-6/PDAM 2	Cards and security devices for personal identification — Test methods — Part 6: Contactless proximity objects — Amendment 2: Enhancements for harmonization	ISO/DIS 14520-5	Gaseous fire-extinguishing systems — Physical properties and system design — Part 5: FK-5-1-12 extinguishant
			2019-03-20
ISO/IEC 14443-3:2018/PDAM 2	Cards and security devices for personal identification — Contactless proximity objects — Part 3: Initialization and anticollision — Amendment 2: Enhancements for harmonization	ISO/DIS 14520-8	Gaseous fire-extinguishing systems — Physical properties and system design — Part 8: HFC 125 extinguishant
			2019-03-20
ISO/IEC 14443-4:2018/PDAM 2	Cards and security devices for personal identification — Contactless proximity objects — Part 4: Transmission protocol — Amendment 2: Enhancements for harmonization	ISO/DIS 14520-9	Gaseous fire-extinguishing systems — Physical properties and system design — Part 9: HFC 227ea extinguishant
			2019-03-20
ISO/IEC 11770-4:2017/PDAM 2	Information technology — Security techniques — Key management — Part 4: Mechanisms based on weak secrets — Amendment 2	ISO/DIS 14520-10	Gaseous fire-extinguishing systems — Physical properties and system design — Part 10: HFC 23 extinguishant
			2019-03-20
ISO/IEC CD 11770-5	Information technology — Security techniques — Key management — Part 5: Group key management		(Revision of ISO 14520-10:2016)
ISO/IEC 19772:2009/PDAM 1	Information technology — Security techniques — Authenticated encryption — Amendment 1	TC 22	Road vehicles
ISO/IEC PDTS 20748-4	Information technology for learning, education and training — Learning analytics interoperability — Part 4: Privacy and data protection policies	ISO/DIS 8820-12	Road vehicles — Fuse-links — Part 12: Fuse-links with tabs (blade type) Type C (medium), Type E (high current) and Type F (miniature)
			2019-03-22
ISO/IEC PDTR 20000-7	Information technology — Service management — Part 7: Guidance on the integration and correlation of ISO/IEC 20000-1:2018 to ISO 9001:2015 and ISO/IEC 27001:2013	ISO/DIS 8820-13	Road vehicles — Fuse-links — Part 13: Fuse-links with tabs (blade type) Type P (sub miniature three tabs)
			2019-03-22
		ISO/DIS 19585	Heavy commercial vehicles and buses — Vehicle dynamics simulation and validation — Steady-state circular driving behavior
			2019-03-20
		ISO/DIS 19586	Heavy commercial vehicles and buses — Vehicle dynamics simulation and validation — Lateral dynamic stability of vehicle combinations
			2019-02-28
		ISO/DIS 23274-1	Hybrid-electric road vehicles — Exhaust emissions and fuel consumption measurements — Part 1: Non-externally chargeable vehicles
			(Revision of ISO 23274-1:2013)
		TC 24	Particle characterization including sieving
		ISO/DIS 21501-2	Determination of particle size distribution — Single particle light interaction methods — Part 2: Light scattering liquid-borne particle counter
			(Revision of ISO 21501-2:2007)
		ISO/DIS 21501-3	Determination of particle size distribution — Single particle light interaction methods — Part 3: Light extinction liquid-borne particle counter
			2019-03-22

## DIS circulated

Period from 01 December to 31 December 2018

These documents have obtained substantial support within the appropriate ISO technical committee.

They have been submitted to the ISO member bodies for voting by the date shown.

\* Available in English only

Vote  
terminates

TC 10	Technical product documentation		
ISO/DIS 6414	Technical product documentation (TPD) — Technical drawings for glassware		2019-03-15

	(Revision of ISO 21501-3:2007)				
TC 28	Petroleum and related products, fuels and lubricants from natural or synthetic sources			TC 44	Welding and allied processes
ISO/DIS 4259-3	Petroleum and related products — Precision of measurement methods and results — Part 3: Monitoring and verification of published precision data in relation to methods of test	2019-02-25		ISO 13918:2017/DAmD 1	Welding — Studs and ceramic ferrules for arc stud welding — Amendment 1
ISO/DIS 21493	Petroleum products — Determination of turbidity point and aniline point equivalent	2019-02-25		TC 58	Gas cylinders
ISO/DIS 21903	Refrigerated Hydrocarbon Fluids — Dynamic Measurement — Guidance for the calibration, installation and use of flow meters for LNG and other refrigerated hydrocarbon fluids	2019-02-25		ISO 14456:2015/DAmD 1	Gas cylinders — Gas properties and associated classification (FTSC) codes — Amendment 1
ISO/DIS 13739	Petroleum products — Procedures for transfer of bunkers to vessels	2019-03-04		TC 60	Gears
	(Revision of ISO 13739:2010)			ISO/DIS 6336-1	Calculation of load capacity of spur and helical gears — Part 1: Basic principles, introduction and general influence factors (Revision of ISO 6336-1:2006, ISO 6336-1:2006/Cor 1:2008)
TC 29	Small tools			ISO/DIS 6336-2	Calculation of load capacity of spur and helical gears — Part 2: Calculation of surface durability (pitting) (Revision of ISO 6336-2:2006, ISO 6336-2:2006/Cor 1:2008)
ISO/DIS 12165	Tools for moulding — Components of compression and injection moulds and diecasting dies — Terms and symbols (Revision of ISO 12165:2000)	2019-03-18		ISO/DIS 6336-3	Calculation of load capacity of spur and helical gears — Part 3: Calculation of tooth bending strength (Revision of ISO 6336-3:2006, ISO 6336-3:2006/Cor 1:2008)
TC 34	Food products			ISO/DIS 6336-6	Calculation of load capacity of spur and helical gears — Part 6: Calculation of service life under variable load (Revision of ISO 6336-6:2006, ISO 6336-6:2006/Cor 1:2007)
ISO/DIS 6887-5	Microbiology of the food chain — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 5: Specific rules for the preparation of milk and milk products (Revision of ISO 6887-5:2010)	2019-03-04		TC 61	Plastics
TC 35	Paints and varnishes			ISO/DIS 22404	Plastics — Determination of the aerobic biodegradation of non-floating materials exposed to marine sediment — Method by analysis of evolved carbon dioxide
ISO/DIS 22969	Paints and varnishes — Determination of solar reflectance	2019-02-25		TC 71	Concrete, reinforced concrete and pre-stressed concrete
ISO/DIS 8504-2	Preparation of steel substrates before application of paints and related products — Surface preparation methods — Part 2: Abrasive blast-cleaning (Revision of ISO 8504-2:2000)	2019-03-11		ISO/DIS 10406-3	Fibre-reinforced polymer (FRP) reinforcement of concrete — Test methods — Part 3: CFRP strips
TC 38	Textiles			TC 83	Sports and other recreational facilities and equipment
ISO/DIS 20706-1	Textiles — Qualitative and quantitative analysis of some bast fibres (flax, hemp, ramie) and their blends — Part 1: Fibre identification using microscopy methods	2019-03-07		ISO/DIS 6005	Alpine skis — Ski binding screws — Test methods
ISO/DIS 3175-5	Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments — Part 5: Procedure for testing performance when cleaning and finishing using dibutoxymethane	2019-03-06			(Revision of ISO 6005:1991)
ISO/DIS 3175-6	Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments — Part 6: Procedure for testing performance when cleaning and finishing using decamethylpentacyclosiloxane	2019-02-25		ISO/DIS 8061	Alpine ski-bindings — Selection of release torques values
					(Revision of ISO 8061:2015)
				TC 84	Devices for administration of medicinal products and catheters
				ISO/DIS 20695.2	Enteral feeding systems — Design and testing
					2019-02-11

TC 85	Nuclear energy, nuclear technologies, and radiological protection			TC 154	Processes, data elements and documents in commerce, industry and administration		
ISO/DIS 22946	Nuclear criticality safety — Solid waste (excluding irradiated and non-irradiated fuel)	2019-03-05		ISO/DIS 20415	Trusted mobile e-document framework — Requirement, functionality and criteria for ensuring reliable and safe mobile e-business	2019-03-13	
TC 86	Refrigeration and air-conditioning			TC 163	Thermal performance and energy use in the built environment		
ISO/DIS 916	Testing of refrigerating systems	2019-03-11		ISO/DIS 16478.3	Thermal insulation products for buildings — Vacuum insulation panels (VIP) — Products specification	2019-02-22	
	(Revision of ISO/R 916:1968)			TC 174	Jewellery and precious metals		
TC 92	Fire safety			ISO/DIS 11494	Jewellery and precious metals — Determination of platinum in platinum alloys — ICP-OES method using an internal standard element (Revision of ISO 11494:2014)		
ISO/DIS 834-2	Fire-resistance tests — Elements of building construction — Part 2: Requirements and recommendations for measuring furnace exposure on test samples (Revision of ISO/TR 834-2:2009)	2019-03-20		ISO/DIS 11495	Jewellery and precious metals — Determination of palladium in palladium alloys — ICP-OES method using an internal standard element (Revision of ISO 11495:2014)	2019-03-20	
TC 108	Mechanical vibration, shock and condition monitoring			TC 184	Automation systems and integration		
ISO/DIS 13373-5	Condition monitoring and diagnostics of machines — Vibration condition monitoring — Part 5: Diagnostic techniques for fans and blowers	2019-03-06		ISO/DIS 21919-1	Physical device control — Interfaces for automated machine tending — Part 1: Overview and fundamental principles	2019-02-28	
ISO/DIS 6070	Auxiliary tables for vibration generators — Methods of describing equipment characteristics	2019-03-22		TC 190	Soil quality		
	(Revision of ISO 6070:1981, ISO 6070:1981/Cor 1:2006)			ISO/DIS 22190	Soil quality — Use of extracts for the assessment of bioavailability of trace elements in soils	2019-03-12	
ISO/DIS 10813-2	Vibration-generating machines — Guidance for selection — Part 2: Equipment for dynamic structural testing	2019-03-22		TC 204	Intelligent transport systems		
TC 117	Fans			ISO/DIS 21219-2	Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 2: UML modelling rules (TPEG2-UMR) (Revision of ISO/TS 21219-2:2014)	2019-03-14	
ISO/DIS 13350	Fans — Performance testing of jet fans	2019-03-20		ISO/DIS 21219-3	Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 3: UML to binary conversion rules (TPEG2-UBCR) (Revision of ISO/TS 21219-3:2015)	2019-03-07	
	(Revision of ISO 13350:2015)			ISO/DIS 21219-4	Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 4: UML to XML conversion rules (Revision of ISO/TS 21219-4:2015)	2019-03-07	
TC 121	Anaesthetic and respiratory equipment						
ISO 5356-2:2012/DAmD 1	Anaesthetic and respiratory equipment — Conical connectors — Part 2: Screw-threaded weight-bearing connectors — Amendment 1	2019-03-14					
TC 126	Tobacco and tobacco products						
ISO/DIS 4387	Cigarettes — Determination of total and nicotine-free dry particulate matter using a routine analytical smoking machine (Revision of ISO 4387:2000, ISO 4387:2000/Amd 1:2008, ISO 4387:2000/Amd 2:2017)	2019-03-20					
ISO 8454:2007/DAmD 2	Cigarettes — Determination of carbon monoxide in the vapour phase of cigarette smoke — NDIR method — Amendment 2	2019-03-20					
ISO 20779:2018/DAmD 1	Cigarettes — Generation and collection of total particulate matter using a routine analytical smoking machine with an intense smoking regime — Amendment 1	2019-03-20					



ISO/DIS 21219-5	Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 5: Service framework (TPEG2-SFW) (Revision of ISO/TS 21219-5:2015)	2019-03-07	ISO/DIS 22584	Traditional Chinese medicine — Angelica sinensis root	2019-02-25
ISO/DIS 21219-6	Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 6: Message management container (TPEG2-MMC) (Revision of ISO/TS 21219-6:2015)	2019-03-07	TC 256	Pigments, dyestuffs and extenders	
ISO/DIS 21219-18	Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 18: Traffic flow and prediction application (TPEG2-TFP) (Revision of ISO/TS 21219-18:2015)	2019-03-07	ISO/DIS 18314-4	Analytical colorimetry — Part 4: Metamerism index for pairs of samples at change of illuminant	2019-03-20
TC 205	Building environment design		TC 281	Fine bubble technology	
ISO/DIS 19455-1	Planning for functional performance testing for building commissioning — Part 1: Secondary hydronic pump, system and associated controls	2019-03-12	ISO/DIS 23016-2	Fine bubble technology — Agricultural applications — Part 2: Test method for evaluating the promotion of the germination of barley seeds	2019-03-13
TC 207	Environmental management		IULTCS	International Union of Leather Technologists and Chemists Societies	
ISO/DIS 14063	Environmental management — Environmental communication — Guidelines and examples (Revision of ISO 14063:2006)	2019-03-15	ISO/DIS 20136	Leather — Determination of degradability by micro-organisms (Revision of ISO 20136:2017)	2019-03-07
TC 211	Geographic information/ Geomatics		JTC 1	Information technology	
ISO/DIS 19160-3	Addressing — Part 3: Address data quality	2019-02-28	ISO/IEC DIS 26561	Software and systems engineering — Methods and tools for product line technical probe	2019-03-12
ISO/DIS 19162	Geographic information — Well-known text representation of coordinate reference systems (Revision of ISO 19162:2015)	2019-02-25	ISO/IEC DIS 26562	Software and systems engineering — Methods and tools for product line transition management	2019-03-12
TC 219	Floor coverings		ISO/IEC 30190:2016/DAMd 1	Information technology — Digitally recorded media for information interchange and storage — 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Recordable disk — Amendment 1	2019-02-27
ISO/DIS 24337	Laminate floor coverings — Determination of geometrical characteristics (Revision of ISO 24337:2006)	2019-03-20	ISO/IEC 30191:2015/DAMd 1	Information technology — Digitally recorded media for information interchange and storage — 120 mm Triple Layer (100,0 Gbytes single sided disk and 200,0 Gbytes double sided disk) and Quadruple Layer (128,0 Gbytes single sided disk) BD Recordable disk — Amendment 1	2019-02-26
TC 221	Geosynthetics		ISO/IEC 30192:2016/DAMd 1	Information technology — Digitally recorded media for information interchange and storage — 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Rewritable disk — Amendment 1	2019-02-27
ISO/DIS 12956	Geotextiles and geotextile-related products — Determination of the characteristic opening size (Revision of ISO 12956:2010)	2019-03-20	ISO/IEC DIS 27102	Information technology — Security techniques — Information security management guidelines for cyber insurance	2019-03-18
TC 228	Tourism and related services		ISO/IEC DIS 27552	Security techniques — Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management — Requirements and guidelines	2019-03-20
ISO/DIS 22483	Tourism and related services — Accommodation: Hotels — Service requirements.	2019-03-20	TC 249	Traditional Chinese medicine	

ISO/IEC 14496-12/ DAmd 2	Information technology — Cod- ing of audio-visual objects — Part 12: ISO base media file format — Amendment 2: Box relative data addressing and other improvements	2019-03-22	ISO/IEC 9995-9:2016/ DAmd 1	Information technology — Key- board layouts for text and office systems — Part 9: Multi-lingual, multiscript keyboard layouts — Amendment 1	2019-03-20
ISO/IEC DIS 15444-15	Information technology — JPEG 2000 image coding system — Part 15: High-Throughput JPEG 2000	2019-03-18			
ISO/IEC DIS 15444-16	Information technology — JPEG 2000 image coding system — Part 16: Encapsulation of JPEG 2000 Images into ISO/IEC 23008-12	2019-03-18			
ISO/IEC DIS 21122-3	Information technology — JPEG XS low-latency lightweight image coding system — Part 3: Trans- port and container formats	2019-03-18			
ISO/IEC 23001-7:2016/ DAmd 1	Information technology — MPEG systems technologies — Part 7: Common encryption in ISO base media file format files — Amend- ment 1: Multi-keyed samples, content sensitive encryption and item protection	2019-03-20			
ISO/IEC DIS 23005-7	Information technology — Me- dia context and control — Part 7: Conformance and reference software (Revision of ISO/IEC 23005-7:2017)				
ISO/IEC DIS 23008-6	Information technology — High efficiency coding and media delivery in heterogeneous en- vironments — Part 6: 3D audio reference software (Revision of ISO/IEC 23008-6:2018)	2019-03-18			
ISO/IEC 23008-8:2018/ DAmd 1	Information technology — High efficiency coding and media delivery in heterogeneous en- vironments — Part 8: Conform- ance specification for HEVC — Amendment 1: Conform- ance testing for HEVC screen content coding (SCC) extensions and non-intra high throughput profiles	2019-03-04			
ISO/IEC 23009-2:2017/ DAmd 1	Information technology — Dy- namic adaptive streaming over HTTP (DASH) — Part 2: Con- formance and reference software — Amendment 1: Conformance vectors and reference software for SRD, SAND and Server Push	2019-03-20			
ISO/IEC DIS 23092-3	Information Technology — ISO/ IEC 23092 — Part 3: Genomic information metadata and ap- plication programming interfaces (APIs)	2019-03-14			
ISO/IEC 29199-2:2012/ DAmd 3	Information technology — JPEG XR image coding system — Part 2: Image coding specification — Amendment 3: Support for JPEG XR coding in the ISO/IEC 23008- 12 file format	2019-03-18			
ISO/IEC DIS 11179-7	Information technology — Meta- data registries (MDR) — Part 7: Metamodel for data set registration	2019-03-06			

## FDIS circulated

Period from 01 December to 31 December 2018

These Final draft International Standards have been submitted to the ISO member bodies for formal approval by the date shown

\* Available in English only

Vote  
terminates

TC 6	Paper, board and pulps		
ISO/FDIS 11093-9	Paper and board — Testing of cores — Part 9: Determination of flat crush resistance  (Revision of ISO 11093-9:2006)	2019-01-31	
TC 8	Ships and marine technology		
ISO/FDIS 24409-2	Ships and marine technology — Design, location and use of shipboard safety signs, fire control plan signs, safety notices and safety markings — Part 2: Catalogue of shipboard safety signs and fire control plan signs (Revision of ISO 24409-2:2014)	2019-01-30	
ISO/FDIS 21130	Ships and marine technology — Major components of emergency towing arrangements	2019-02-04	
TC 10	Technical product documentation		
IEC/IEEE FDIS 82079-1	Preparation of information for use (instructions for use) of prod- ucts — Part 1: Principles and general requirements (Revision of IEC 82079-1:2012)	2019-02-01	
TC 21	Equipment for fire protec- tion and fire fighting		
ISO/FDIS 6182-4	Fire protection — Automatic sprinkler systems — Part 4: Requirements and test methods for quick opening devices (Revision of ISO 6182-4:1993)	2019-02-01	
TC 22	Road vehicles		
ISO/FDIS 15118-1	Road vehicles — Vehicle to grid communication interface — Part 1: General information and use- case definition (Revision of ISO 15118-1:2013)	2019-02-15	
TC 23	Tractors and machinery for agriculture and forestry		



ISO/FDIS 11783-2	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 2: Physical layer (Revision of ISO 11783-2:2012, ISO 11783-2:2012/Cor 1:2012)	2019-02-20	TC 37 ISO/FDIS 30042	Language and terminology Management of terminology resources — TermBase eXchange (TBX)  (Revision of ISO 30042:2008)	2019-01-31
TC 28	Petroleum and related products, fuels and lubricants from natural or synthetic sources		ISO/FDIS 20228	Interpreting services — Legal interpreting — Requirements	2019-01-29
ISO/FDIS 3015	Petroleum and related products from natural or synthetic sources — Determination of cloud point  (Revision of ISO 3015:1992)	2019-02-22	ISO/FDIS 22259	Conference systems — Equipment — Requirements	2019-02-04
ISO/FDIS 3016	Petroleum and related products from natural or synthetic sources — Determination of pour point  (Revision of ISO 3016:1994)	2019-02-22	TC 38 ISO/FDIS 1833-12	Textiles Textiles — Quantitative chemical analysis — Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide) (Revision of ISO 1833-12:2006)	2019-01-31
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## Standards published

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				ISO 10303-42:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 42: Integrated generic resource: Geometric and topological representation		B
				ISO 10303-43:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 43: Integrated generic resource: Representation structures		B

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ISO 10303-47:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 47: Integrated generic resource: Shape variation tolerances	B	ISO/TS 10303-1027:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 1027: Application module: Contextual shape positioning	B
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ISO/TS 10303-1826:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 1826: Application module: Physical connectivity layout topology requirement	B	TC 199		Safety of machinery	
ISO/TS 10303-1827:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 1827: Application module: Extruded structure cross section	B	ISO/TR 22100-4:2018	en	Safety of machinery — Relationship with ISO 12100 — Part 4: Guidance to machinery manufacturers for consideration of related IT-security (cyber security) aspects	C
ISO/TS 10303-1828:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 1828: Application module: Wiring harness assembly design	B	TC 204		Intelligent transport systems	
ISO/TS 10303-1829:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 1829: Application module: Assembly module with packaged component	B	ISO/TR 21190:2018	en	Electronic fee collection — Investigation of charging policies and technologies for future standardization	G
ISO/TS 10303-1830:2018	en	Industrial automation systems and integration — Product data representation and exchange — Part 1830: Application module: Edge based topological representation with length	B	TC 207		Environmental management	
				ISO 14064-1:2018	en fr	Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals	F
				TC 210		Quality management and corresponding general aspects for medical devices	
				ISO 18250-1:2018	en	Medical devices — Connectors for reservoir delivery systems for healthcare applications — Part 1: General requirements and common test methods	G

ISO 18250-7:2018	en	Medical devices — Connectors for reservoir delivery systems for health-care applications — Part 7: Connectors for intravascular infusion	E	ISO/TR 21506:2018	en	Project, programme and portfolio management — Vocabulary	A
TC 212		Clinical laboratory testing and in vitro diagnostic test systems		TC 260		Human resource management	
ISO 15195:2018	en fr	Laboratory medicine — Requirements for the competence of calibration laboratories using reference measurement procedures	B	ISO 30414:2018	en fr	Human resource management — Guidelines for internal and external human capital reporting	E
ISO 20166-3:2018	en fr	Molecular in vitro diagnostic examinations — Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue — Part 3: Isolated DNA	C	TC 269		Railway applications	
TC 213		Dimensional and geometrical product specifications and verification		ISO/TR 21245:2018	en	Railway applications — Railway project planning process — Guidance on railway project planning	E
ISO 14405-2:2018	en fr	Geometrical product specifications (GPS) — Dimensional tolerancing — Part 2: Dimensions other than linear or angular sizes	D	TC 276		Biotechnology	
TC 215		Health informatics		ISO/TS 20399-1:2018	en	Biotechnology — Ancillary materials present during the production of cellular therapeutic products — Part 1: General requirements	B
ISO/IEEE 11073- 10427:2018	fr <sup>1</sup>	Health informatics — Personal health device communication — Part 10427: Device specialization — Power status monitor of personal health devices	G	ISO/TS 20399-2:2018	en	Biotechnology — Ancillary materials present during the production of cellular therapeutic products — Part 2: Best practice guidance for ancillary material suppliers	B
TC 219		Floor coverings		ISO/TS 20399-3:2018	en	Biotechnology — Ancillary materials present during the production of cellular therapeutic products — Part 3: Best practice guidance for ancillary material users	B
ISO 4918:2016/ Amd 1:2018	en	Resilient, textile and laminate floor coverings — Castor chair test — Amendment 1: Surface hardness	XZ	TC 282		Water reuse	
TC 221		Geosynthetics		ISO 20670:2018	en fr	Water reuse — Vocabulary	A
ISO 12957-1:2018	en fr	Geosynthetics — Determination of friction characteristics — Part 1: Direct shear test	B	IULTCS		International Union of Leather Technologists and Chemists Societies	
TC 228		Tourism and related services		ISO 5398-4:2018	en fr	Leather — Chemical determination of chromic oxide content — Part 4: Quantification by inductively coupled plasma (ICP)	A
ISO 21401:2018	en	Tourism and related services — Sustainability management system for accommodation establishments — Requirements	E	ISO 17226-1:2018	en fr	Leather — Chemical determination of formaldehyde content — Part 1: Method using high performance liquid chromatography	B
TC 229		Nanotechnologies		ISO 17226-2:2018	en fr	Leather — Chemical determination of formaldehyde content — Part 2: Method using colorimetric analysis	B
ISO/TR 12885:2018	en	Nanotechnologies — Health and safety practices in occupational settings	H	CASCO		Committee on conformity assessment	
ISO/TS 16195:2018	en fr	Nanotechnologies — Specification for developing representative test materials consisting of nano-objects in dry powder form	B	ISO/IEC TS 17021-11:2018	fr <sup>1</sup>	Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 11: Competence requirements for auditing and certification of facility management (FM) management systems	A
ISO/TR 20489:2018	en	Nanotechnologies — Sample preparation for the characterization of metal and metal-oxide nano-objects in water samples	B	JTC 1		Information technology	
TC 232		Learning services outside formal education		ISO/IEC/IEEE 24748-2:2018	en	Systems and software engineering — Life cycle management — Part 2: Guidelines for the application of ISO/IEC/IEEE 15288 (System life cycle processes)	G
ISO 29992:2018	en fr	Assessment of outcomes of learning services — Guidance	C	ISO/IEC/IEEE 26511:2018	en	Systems and software engineering — Requirements for managers of information for users of systems, software, and services	G
TC 249		Traditional Chinese medicine		TC 258		Project, programme and portfolio management	
ISO 21315:2018	en	Traditional Chinese medicine — Ganoderma lucidum fruiting body	C				

ISO/IEC/IEEE 26515:2018	en	Systems and software engineering — Developing information for users in an agile environment
ISO/IEC 23270:2018	en	Information technology — Program- ming languages — C#
ISO/IEC 23001-12:2018	en	Information technology — MPEG systems technologies — Part 12: Sample variants
ISO/IEC 23003-2:2018	en	Information technology — MPEG audio technologies — Part 2: Spatial Audio Object Coding (SAOC)
ISO/IEC 19086-2:2018	en	Cloud computing — Service level agreement (SLA) framework — Part 2: Metric model
ISO/IEC TR 23186:2018	en	Information technology — Cloud computing — Framework of trust for processing of multi-sourced data
ISO/IEC 20924:2018	en	Information technology — Internet of Things (IoT) — Vocabulary

D	ISO 11783-14:2013	TC 27	Solid mineral fuels (reconfirmed)
H	ISO 15117-1:2004 ISO 23499:2013 ISO 587:1997		(reconfirmed)
E	ISO 1170:2013 ISO 8264:1989 ISO 11722:2013 ISO 17247:2013 ISO 23380:2013		(reconfirmed)
H	TC 29		Small tools
F	ISO/TS 13399-202:2015 ISO 8404:2013 ISO 8405:2013		
C	ISO 883:2013 ISO 3338-2:2013 ISO 5420:1983		
B	ISO 6262-1:2013 ISO 6262-2:2013 ISO 6986:2013 ISO 7755-1:2013 ISO 7755-2:2013 ISO 7755-3:2013 ISO 7755-4:2013 ISO 7755-5:2013 ISO 7755-6:2013 ISO 7755-7:2013 ISO 7755-8:2013 ISO 7755-9:2013 ISO 7755-10:2013 ISO 7755-11:2013 ISO 7755-12:2013		

## Standards confirmed

The following International Standards are confirmed for a five year period:

TC 2	Fasteners
ISO 14581:2013	
TC 6	Paper, board and pulps
ISO 3037:2013 ISO 8791-2:2013	
TC 17	Steel
ISO 629:1982 ISO 10697-1:1992 ISO 7452:2013	(reconfirmed) (reconfirmed)
TC 20	Aircraft and space vehicles
ISO 1151-8:1992 ISO 14303:2002 ISO 14711:2003 ISO 14954:2005	(reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed)
TC 22	Road vehicles
ISO 15031-7:2013 ISO 17949:2013 ISO 27956:2009	(reconfirmed)
TC 23	Tractors and machinery for agriculture and forestry
ISO/TS 19858:2015	

TC 30	Measurement of fluid flow in closed conduits
ISO 7066-2:1988	(reconfirmed)
TC 34	Food products
ISO 1673:1991 ISO 2167:1991 ISO 3634:1979 ISO 4125:1991 ISO 5520:1981 ISO 5524:1991 ISO 6560:1983 ISO 6755:2001 ISO 7908:1991 ISO 7910:1991 ISO 882-1:1993 ISO 882-2:1993 ISO 928:1997 ISO 930:1997 ISO 941:1980 ISO 948:1980 ISO 972:1997 ISO 1003:2008	(reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed) (reconfirmed)

ISO 1237:1981	(reconfirmed)	ISO 4716:2013	
ISO 2255:1996	(reconfirmed)	TC 58	Gas cylinders
ISO 3513:1995	(reconfirmed)	ISO 3807:2013	
ISO 3588:1977	(reconfirmed)	ISO 12209:2013	
ISO 5559:1995	(reconfirmed)	TC 61	Plastics
ISO 5560:1997	(reconfirmed)	ISO 176:2005	(reconfirmed)
ISO 5561:1990	(reconfirmed)	ISO 483:2005	(reconfirmed)
ISO 5564:1982	(reconfirmed)	ISO 4892-4:2013	
ISO 5566:1982	(reconfirmed)	TC 67	Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries
ISO 5567:1982	(reconfirmed)	ISO 14998:2013	
ISO 6571:2008	(reconfirmed)	ISO 14691:2008	(reconfirmed)
ISO 6575:1982	(reconfirmed)	ISO 15649:2001	(reconfirmed)
ISO 6576:2004	(reconfirmed)	ISO 25457:2008	(reconfirmed)
ISO 7377:1984	(reconfirmed)	TC 69	Applications of statistical methods
ISO 10620:1995	(reconfirmed)	ISO 3951-2:2013	
ISO 10621:1997	(reconfirmed)	TC 70	Internal combustion engines
ISO 10622:1997	(reconfirmed)	ISO 15619:2013	
ISO 11162:2001	(reconfirmed)	TC 71	Concrete, reinforced concrete and pre-stressed concrete
ISO 11163:1995	(reconfirmed)	ISO 28842:2013	
ISO 11164:1995	(reconfirmed)	TC 72	Textile machinery and accessories
ISO 11165:1995	(reconfirmed)	ISO 9903-1:2003	(reconfirmed)
ISO 11178:1995	(reconfirmed)	ISO 9903-2:2003	(reconfirmed)
ISO 13685:1997	(reconfirmed)	ISO 21485:2013	
ISO 1446:2001	(reconfirmed)	ISO 108:1976	(reconfirmed)
ISO 6667:1985	(reconfirmed)	ISO 109:1982	(reconfirmed)
ISO 6669:1995	(reconfirmed)	ISO 142:1976	(reconfirmed)
ISO 8455:2011		ISO 365:1982	(reconfirmed)
ISO 11292:1995	(reconfirmed)	ISO 441:1997	(reconfirmed)
ISO 11294:1994	(reconfirmed)	ISO 570:1982	(reconfirmed)
ISO 24114:2011		ISO 1150:1997	(reconfirmed)
TC 36	Cinematography	ISO 1586:1977	(reconfirmed)
ISO 3042:1992	(reconfirmed)	ISO 1865:1977	(reconfirmed)
ISO 4834:1997	(reconfirmed)	ISO 2012:1976	(reconfirmed)
ISO 6038:1993	(reconfirmed)	ISO 5243:2004	(reconfirmed)
ISO 10284:1997	(reconfirmed)	ISO 5247-1:2004	(reconfirmed)
ISO 12606:1997	(reconfirmed)	ISO 6177:1986	(reconfirmed)
TC 38	Textiles	ISO 8119-3:1992	(reconfirmed)
ISO 1806:2002	(reconfirmed)	ISO 8640-4:1996	(reconfirmed)
ISO 5089:1977	(reconfirmed)	TC 85	Nuclear energy, nuclear technologies, and radiological protection
ISO 6940:2004	(reconfirmed)	ISO 8300:2013	
ISO 10047:1993	(reconfirmed)	ISO 16117:2013	
ISO 11224:2003	(reconfirmed)	TC 89	Wood-based panels
ISO 15831:2004	(reconfirmed)	ISO 12466-1:2007	(reconfirmed)
ISO 20645:2004	(reconfirmed)	ISO 18776:2008	(reconfirmed)
TC 41	Pulleys and belts (including veebelts)	TC 92	Fire safety
ISO 5285:2012		ISO 9239-2:2002	(reconfirmed)
TC 42	Photography	TC 96	Cranes
ISO 519:1992		ISO 16625:2013	
TC 43	Acoustics	TC 102	Iron ore and direct reduced iron
ISO 11821:1997	(reconfirmed)	ISO 17992:2013	
TC 44	Welding and allied processes	TC 106	Dentistry
ISO 9455-8:1991	(reconfirmed)	ISO 6360-1:2004	(reconfirmed)
TC 45	Rubber and rubber products		
ISO 11759:1999	(reconfirmed)		
TC 54	Essential oils		

ISO 6360-2:2004	(reconfirmed)	ISO	(reconfirmed)
ISO 6360-4:2004	(reconfirmed)	9241-304:2008	
ISO 6360-6:2004	(reconfirmed)	ISO	(reconfirmed)
ISO 7787-4:2002	(reconfirmed)	9241-305:2008	
ISO 21530:2004	(reconfirmed)	ISO	(reconfirmed)
TC 107	Metallic and other inorganic coatings	9241-307:2008	
ISO 17334:2008	(reconfirmed)	ISO 14915-1:2002	(reconfirmed)
ISO 27831-1:2008	(reconfirmed)	ISO/TS	(reconfirmed)
ISO 27831-2:2008	(reconfirmed)	18152:2010	
TC 108	Mechanical vibration, shock and condition monitoring	TC 163	Thermal performance and energy use in the built environment
ISO 20958:2013		ISO 12571:2013	
ISO 8626:1989	(reconfirmed)	ISO 24353:2008	(reconfirmed)
TC 118	Compressors and pneumatic tools, machines and equipment	TC 168	Prosthetics and orthotics
ISO 3857-1:1977	(reconfirmed)	ISO 8548-1:1989	(reconfirmed)
TC 121	Anaesthetic and respiratory equipment	ISO 8548-4:1998	(reconfirmed)
ISO 23328-2:2002	(reconfirmed)	ISO 29781:2008	(reconfirmed)
TC 130	Graphic technology	ISO 29783-1:2008	(reconfirmed)
ISO/TS	(reconfirmed)	TC 171	Document management applications
10128:2009		ISO 14648-1:2001	(reconfirmed)
ISO/PAS		ISO 14648-2:2001	(reconfirmed)
15339-1:2015		TC 172	Optics and photonics
ISO/PAS		ISO 11252:2013	
15339-2:2015		TC 199	Safety of machinery
ISO 16759:2013		ISO 13856-3:2013	
TC 137	Footwear sizing designations and marking systems	TC 206	Fine ceramics
ISO/TS		ISO 17095:2013	
19408:2015		TC 211	Geographic information/Geomatics
TC 138	Plastics pipes, fittings and valves for the transport of fluids	ISO 19126:2009	
ISO 19220:2004	(reconfirmed)	TC 213	Dimensional and geometrical product specifications and verification
TC 145	Graphical symbols	ISO	
ISO 17398:2004	(reconfirmed)	25178-603:2013	
TC 146	Air quality	ISO	
ISO	(reconfirmed)	25178-604:2013	
ISO	(reconfirmed)	TC 216	Footwear
ISO	(reconfirmed)	ISO 16187:2013	
ISO	(reconfirmed)	ISO 19953:2004	(reconfirmed)
ISO	(reconfirmed)	ISO 19956:2004	(reconfirmed)
ISO	(reconfirmed)	ISO 22654:2002	(reconfirmed)
ISO	(reconfirmed)	TC 218	Timber
ISO	(reconfirmed)	ISO 24294:2013	
TC 155	Nickel and nickel alloys	TC 219	Floor coverings
ISO 6351:1985	(reconfirmed)	ISO 23996:2007	(reconfirmed)
ISO 6352:1985	(reconfirmed)	ISO 23997:2007	(reconfirmed)
ISO 7523:1985	(reconfirmed)	TC 229	Nanotechnologies
ISO 7527:1985	(reconfirmed)	ISO/TS	(reconfirmed)
TC 159	Ergonomics	10797:2012	
ISO 1503:2008	(reconfirmed)	ISO/TS	
ISO 9241-14:1997	(reconfirmed)	17466:2015	
ISO		JTC 1	Information technology
9241-143:2012		ISO/IEC 4909:2006	(reconfirmed)
ISO	(reconfirmed)	ISO/IEC	(reconfirmed)
9241-171:2008		7501-2:1997	
ISO	(reconfirmed)	ISO/IEC	(reconfirmed)
9241-300:2008		7501-3:2005	
ISO	(reconfirmed)	ISO/IEC 7813:2006	(reconfirmed)
9241-302:2008		ISO/IEC	(reconfirmed)
		7816-3:2006	



ISO/IEC 7816-5:2004	(reconfirmed)
ISO/IEC 7816-7:1999	(reconfirmed)
ISO/IEC 7816-10:1999	(reconfirmed)
ISO/IEC 7816-12:2005	(reconfirmed)
ISO/IEC 15457-1:2008	(reconfirmed)
ISO/IEC 15457-2:2007	(reconfirmed)
ISO/IEC 15457-3:2008	(reconfirmed)
ISO/IEC 21117:2012	
ISO/IEC 10744:1997	(reconfirmed)

ISO 10110-4:1997	(replaced by ISO 10110-18:2018)
TC 188	Small craft
ISO 9097:1991	(replaced by )
TC 232	Learning services outside formal education
ISO 29990:2010	(replaced by )
TC 269	Railway applications
ISO/TR 21245-1:2016	(replaced by ISO/TR 21245:2018)
ISO/TR 21245-2:2016	(replaced by ISO/TR 21245:2018)
JTC 1	Information technology
ISO/IEC TR 8802-1:2001	(replaced by )
ISO/IEC TR 24748-2:2011	(replaced by ISO/IEC/IEEE 24748-2:2018)

## Standards withdrawn

Period from 01 December to 31 December 2018

TC 6	Paper, board and pulps
ISO 7263:2011	(replaced by ISO 7263-1:2018, ISO 7263-2:2018)

TC 22	Road vehicles
ISO/PAS 19451-1:2016	(replaced by )
ISO/PAS 19451-2:2016	(replaced by )
ISO 16232-1:2007	(replaced by ISO 16232:2018)
ISO 16232-2:2007	(replaced by ISO 16232:2018)
ISO 16232-3:2007	(replaced by ISO 16232:2018)
ISO 16232-4:2007	(replaced by ISO 16232:2018)
ISO 16232-5:2007	(replaced by ISO 16232:2018)
ISO 16232-6:2007	(replaced by ISO 16232:2018)
ISO 16232-7:2007	(replaced by ISO 16232:2018)
ISO 16232-8:2007	(replaced by ISO 16232:2018)
ISO 16232-9:2007	(replaced by ISO 16232:2018)
ISO 16232-10:2007	(replaced by ISO 16232:2018)

TC 45	Rubber and rubber products
ISO/TR 9272:2005	(replaced by ISO 19983:2017)

TC 59	Buildings and civil engineering works
ISO 3880-1:1977	(replaced by )

TC 106	Dentistry
ISO/TS 22595-1:2006	(replaced by )

TC 159	Ergonomics
ISO 9241-15:1997	(replaced by )
ISO 14915-3:2002	(replaced by )

TC 172	Optics and photonics
ISO 10110-2:1996	(replaced by ISO 10110-18:2018)
ISO 10110-3:1996	(replaced by ISO 10110-18:2018)

## Meeting calendar

The meeting calendar is available at

<https://www.iso.org/meeting-calendar.html>