

# ISO Update

Supplement to ISOfocus

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March 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 February to 28 February 2019

These documents are currently under consideration in the technical committee.

They have been registered at the Central Secretariat.

TC 6	Paper, board and pulps
ISO/CD 14778	Paper and board — Measurement of water contact angle by optical methods
TC 20	Aircraft and space vehicles
ISO/CD 21442	Space systems — General requirements for control engineering
ISO/CD 22591	Space systems — Satellite-based service for a snowplow support system
ISO/CD 22772	Space systems — Requirements of launch vehicle (LV) to electrical ground support equipment (EGSE) interfaces
TC 21	Equipment for fire protection and fire fighting
ISO/CD 7240-3	Fire detection and alarm systems — Part 3: Audible alarm devices
TC 22	Road vehicles
ISO/CD 7637-2	Road vehicles — Electrical disturbances from conduction and coupling — Part 2: Electrical transient conduction along supply lines only
ISO/DTS 7637-4	Road Vehicles — Electrical disturbance by conduction and coupling — Part 4: Electrical transient conduction along shielded high voltage supply lines only
ISO/CD 11452-9	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 9: Portable transmitters
ISO/DTS 19072-5	Road vehicles — Connection interface for pyrotechnic devices, two-way and three-way connections — Part 5: Pyrotechnic device and harness connector assembly - type 3 (only two-way)
TC 23	Tractors and machinery for agriculture and forestry
ISO/CD 22494	Disc plough- Specifications and test method
ISO/CD 22495	Chisel plough- specifications and test method.

ISO/CD 19472-2	Machinery for Forestry — Winches — Dimensions, performance and safety — Part 2: Part 2: Tethering & Tractions Assistance Winches
ISO/CD 11680-1	Machinery for forestry — Safety requirements and testing for pole-mounted powered pruners — Part 1: Machines fitted with an integral combustion engine
ISO/CD 11680-2	Machinery for forestry — Safety requirements and testing for pole-mounted powered pruners — Part 2: Machines for use with back-pack power source
TC 24	Particle characterization including sieving
ISO/CD 13322-2	Particle size analysis — Image analysis methods — Part 2: Dynamic image analysis methods
TC 30	Measurement of fluid flow in closed conduits
ISO/CD 5167-3	Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 3: Nozzles and Venturi nozzles
TC 31	Tyres, rims and valves
ISO/CD 4250-3	Earth-mover tyres and rims — Part 3: Rims
TC 34	Food products
ISO/CD 6888-1	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) — Part 1: Technique using Baird-Parker agar medium
ISO/CD 6888-2	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) — Part 2: Technique using rabbit plasma fibrinogen agar medium
ISO/CD 6888-3	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) — Part 3: Detection and MPN technique for low numbers
ISO/CD 23349	Animal and vegetable fats and oils — Determination of sterols and stanols in foods and dietary supplements containing added phytosterols
TC 39	Machine tools
ISO/CD 28881	Machine tools — Safety — Electro-discharge machines
TC 43	Acoustics
ISO/CD 17201-6	Acoustics — Noise from shooting ranges — Part 6: Sound exposure at close range of the sound source
TC 45	Rubber and rubber products
ISO/CD 10619-2	Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 2: Bending tests at sub-ambient temperatures
TC 46	Information and documentation
ISO/CD 3166-1	Codes for the representation of names of countries and their subdivisions — Part 1: Country codes
ISO/CD 3166-2	Codes for the representation of names of countries and their subdivisions — Part 2: Country subdivision code

ISO/CD 3166-3	Codes for the representation of names of countries and their subdivisions — Part 3: Code for formerly used names of countries	TC 188	Small craft
ISO/DTR 22428	Information and documentation — Records management in the cloud: Issues and concerns	ISO 7840:2013/CD Amd 1	Small craft — Fire-resistant fuel hoses — Amendment 1
TC 61	Plastics	ISO 8469:2013/CD Amd 1	Small craft — Non-fire-resistant fuel hoses — Amendment 1
ISO/CD 19095-6	Plastics — Evaluation of the adhesion interface performance in plastic-metal assemblies — Part 6: Accelerated degradation test	TC 195	Building construction machinery and equipment
TC 82	Mining	ISO/CD 21573-2	Building construction machinery and equipment — Concrete pumps — Part 2: Procedure for examination of technical parameters
ISO/CD 20305	Mine closure and reclamation terminology	TC 204	Intelligent transport systems
ISO/CD 21795	Mine Closure and Reclamation Management Planning	ISO/DTR 17573-2	Electronic fee collection — System architecture for vehicle related tolling — Part 2: Terminology
TC 85	Nuclear energy, nuclear technologies, and radiological protection	ISO/DTS 21192	Electronic fee collection — Support for traffic management
ISO/DTR 22930-1	Evaluating the performance of continuous air monitors — Part 1: Air monitors based on accumulation sampling techniques	ISO/CD 22085-2	Intelligent transport systems — Nomadic device service platform for micro mobility — Part 2: Functional requirements and data set definitions
ISO/DTR 22930-2	Evaluating the performance of continuous air monitors — Part 2: Air monitors based on flow-through sampling techniques without accumulation	TC 211	Geographic information/Geomatics
TC 113	Hydrometry	ISO/CD 19170	Geographic information — Discrete global grid systems
ISO/CD 23350	Hydrometry -Precipitation measuring devices	TC 212	Clinical laboratory testing and in vitro diagnostic test systems
TC 121	Anaesthetic and respiratory equipment	ISO/CD 21474-1	In vitro diagnostic medical devices — Multiplex molecular testing for nucleic acids — Part 1: Terminology and general requirements for nucleic acid quality evaluation
ISO/CD 23371	Anaesthetic and respiratory equipment — Cuff pressure indication devices	ISO/DTS 22583	Guidance for supervisors and operators of point-of-care testing (POCT) devices
TC 127	Earth-moving machinery	TC 216	Footwear
ISO/DTS 19014-5	Earth-moving machinery — Functional safety — Part 5: Tables of performance levels	ISO/DTR 20572	Footwear — Performance requirements for components for footwear — Accessories
TC 130	Graphic technology	ISO/DTR 20879	Footwear — Performance requirements for components for footwear — Uppers
ISO/CD 2836	Graphic technology — Prints and printing inks — Assessment of resistance of prints to various agents	ISO/DTR 20880	Footwear — Performance requirements for components for footwear — Outsoles
ISO/CD 12647-6	Graphic technology — Process control for the production of half-tone colour separations, proofs and production prints — Part 6: Flexographic printing	ISO/DTR 20881	Footwear — Performance requirements for components for footwear — Insoles
ISO/DTS 18621-11	Image quality evaluation methods for printed matter — Part 11: Colour gamut analysis	ISO/DTR 20882	Footwear — Performance requirements for components for footwear — Lining and insoles
ISO/CD 22934	Graphic technology — Communication of paste ink properties	ISO/DTR 20883	Footwear — Performance requirements for components for footwear — Shanks
TC 147	Water quality	ISO/DTR 22648	Footwear — Performance requirements for components for footwear — Stiffeners and toe-puffs
ISO/CD 13162	Water quality — Determination of carbon 14 activity — Liquid scintillation counting method	TC 218	Timber
TC 156	Corrosion of metals and alloys	ISO/CD 24294	Timber — Round and sawn timber — Vocabulary
ISO/CD 23449	Corrosion of metals and alloys — Multielectrode Arrays for Corrosion Measurement	TC 229	Nanotechnologies
TC 159	Ergonomics	ISO/DTS 10798	Nanotechnologies — Characterization of carbon nanotubes using scanning electron microscopy and energy dispersive X-ray spectrometry
ISO/CD TS 24507	Ergonomics — Accessible design — Doors and handles of consumer products	ISO/DTS 21237	Nanotechnologies — Nano-enhanced air filter media using nanofibres — Characteristics, performance and measurement methods
TC 163	Thermal performance and energy use in the built environment	TC 249	Traditional Chinese medicine
ISO/CD 9229	Thermal insulation — Vocabulary	ISO/CD 23191	Traditional Chinese medicine — Determination of selected Aconitum alkaloids by HPLC
TC 164	Mechanical testing of metals	TC 276	Biotechnology
ISO/DTR 15262	Mechanical tests on metallic materials — Uncertainty in low-cycle fatigue	ISO/CD 21973	Biotechnology — General requirements for transportation of cells for therapeutic use
ISO/CD 22407	Metallic materials — Fatigue testing — Axial plane bending method		
TC 171	Document management applications		
ISO/CD 23504-1	Document management applications — Raster image transport and storage — Part 1: Use of ISO 32000 (PDF/R-1)		

TC 307	Blockchain and distributed ledger technologies				
ISO/CD 22739	Blockchain and distributed ledger technologies — Terminology				Vote terminates
ISO/DTR 23245	Blockchain and distributed ledger technologies — Security risks, threats and vulnerabilities				
CASCO	Committee on conformity assessment				
ISO/IEC DTR 17032	Conformity assessment — Guidelines and examples of a certification scheme for processes				
JTC 1	Information technology				
ISO/IEC CD 10646	Information technology — Universal Coded Character Set (UCS)				
ISO/IEC CD 21481	ISO/IEC 21481: 2012, Information technology — Telecommunications and information exchange between systems — Near Field Communication Interface and Protocol -2 (NFCIP-2)				
ISO/IEC/IEEE CD 12207-2	Systems and software engineering — Software life cycle processes — Part 2: Relation and mapping of supplemental software processes between ISO/IEC/IEEE 12207-1:2017 and ISO/IEC/IEEE 12207:2008				2019-05-03
ISO/IEC/IEEE CD 16085	Systems and software engineering — Life cycle processes — Risk management				
ISO/IEC PDTR 16351	Information technology — Application management — Guidance on the relationship between ISO/IEC 16350:2015 and application management frameworks: ASL				2019-05-06
ISO/IEC CD 10779	Information technology — Office equipment accessibility guidelines for elderly persons and persons with disabilities				
ISO/IEC PDTR 22981	Information technology — Office equipment — Guidelines for the development of an ontology (vocabulary, components and relationships) for office equipment				
ISO/IEC CD 22603	Standard for Electronic Labeling				
ISO/IEC CD 30113-60	Information technology — Gesture-based interfaces across devices and methods — Part 60: General guidance on gestures for screen readers				
ISO/IEC CD 23126	Information technology for learning, education and training — Ubiquitous Learning Resource Organization and Description Framework (Learning Cell Framework)				
ISO/IEC CD 30106-2	Information technology — Object oriented Bio-API — Part 2: Java implementation				
ISO/IEC CD 30106-3	Information technology — Object oriented Bio-API — Part 3: C# implementation				
ISO/IEC CD 38503	Information technology — Governance of IT — Assessment of governance of IT				
TC 4	Rolling bearings				
ISO/DIS 21250-1	Rolling bearings — Noise testing of rolling bearing greases — Part 1: Basic principles, testing assembly, test machine				2019-05-03
ISO/DIS 21250-2	Rolling bearings — Noise testing of rolling bearing greases — Part 2: Test and evaluation method BQ+				2019-05-03
ISO/DIS 21250-3	Rolling bearings — Noise testing of rolling bearing greases — Part 3: Test and evaluation method MQ				2019-05-03
TC 17	Steel				
ISO/DIS 439	Steel and cast irons — Determination of silicon content — Gravimetric method  (Revision of ISO 439:1994)				2019-05-02
ISO/DIS 9647	Steels — Determination of vanadium content — Flame atomic absorption spectrometric method (FAAS) (Revision of ISO 9647:1989)				2019-05-06
TC 20	Aircraft and space vehicles				
ISO/DIS 16698	Space environment (natural and artificial) — Methods for estimation of future geomagnetic activity (Revision of ISO 16698:2013)				2019-04-29
TC 22	Road vehicles				
ISO/DIS 8820-8	Road vehicles — Fuse-links — Part 8: Fuse-links with bolt-in contacts (Type H and J) with rated voltage of 450 V (Revision of ISO 8820-8:2012)				2019-05-13
ISO/DIS 11452-4	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4: Harness excitation methods (Revision of ISO 11452-4:2011)				2019-05-03
ISO/DIS 17536-4	Road Vehicles — Aerosol separator performance test for internal combustion engines — Part 4: Laboratory fractional efficiency test method				2019-04-29
TC 28	Petroleum and related products, fuels and lubricants from natural or synthetic sources				
ISO/DIS 12922	Lubricants, industrial oils and related products (class L) — Family H (Hydraulic systems) — Specifications for hydraulic fluids in categories HFAE, HFAS, HFB, HFC, HFDR and HFDU (Revision of ISO 12922:2012)				2019-05-03
TC 33	Refractories				
ISO/DIS 13765-7	Refractory mortars — Part 7: Determination of permanent change in dimensions on heating				2019-05-03
TC 35	Paints and varnishes				

## DIS circulated

Period from 01 February to 28 February 2019

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

ISO/DIS 276	Binders for paints and varnishes — Linseed stand oil — Requirements and methods of test  (Revision of ISO 276:2002)	2019-05-03	ISO/DIS 15836-2	Information and documentation — The Dublin Core metadata element set — Part 2: DCMI Properties and classes (Revision of ISO 15836:2009)	2019-05-14
ISO/DIS 3233-1	Paints and varnishes — Determination of percentage volume of non-volatile matter — Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry film density by the Archimedes principle (Revision of ISO 3233-1:2013)	2019-05-03	TC 59	Buildings and civil engineering works	
TC 37	Language and terminology		ISO/DIS 21723	Buildings and civil engineering works — Modular coordination — Module (Revision of ISO 1006:1983, ISO 1040:1983, ISO 6512:1982, ISO 6513:1982, ISO 6514:1982)	
ISO/DIS 24617-9	Language resource management — Semantic annotation framework — Part 9: Reference annotation framework (RAF)	2019-04-30	TC 61	Plastics	
TC 38	Textiles		ISO/DIS 11357-2	Plastics — Differential scanning calorimetry (DSC) — Part 2: Determination of glass transition temperature and step height (Revision of ISO 11357-2:2013)	2019-05-03
ISO/DIS 1833-15	Textiles — Quantitative chemical analysis — Part 15: Mixtures of jute with certain animal fibres (method by determining nitrogen content) (Revision of ISO 1833-15:2006)	2019-05-09	ISO/DIS 19063-2	Plastics — Impact-resistant polystyrene (PS-I) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties (Revision of ISO 2897-2:2003)	2019-05-14
ISO/DIS 1833-17	Textiles — Quantitative chemical analysis — Part 17: Mixtures of cellulose fibres and certain fibres with chlorofibres and certain other fibres (method using concentrated sulfuric acid) (Revision of ISO 1833-17:2006)	2019-04-29	TC 67	Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries	
ISO/DIS 18692-3	Fibre ropes for offshore station-keeping — Part 3: High modulus polyethylene (HMPE)  (Revision of ISO/TS 14909:2012)	2019-05-07	ISO/DIS 13680	Petroleum and natural gas industries — Corrosion-resistant alloy seamless tubular products for use as casing, tubing, coupling stock and accessory material — Technical delivery conditions (Revision of ISO 13680:2010)	2019-05-09
ISO/DIS 105-A03	Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining  (Revision of ISO 105-A03:1993, ISO 105-A03:1993/Cor 1:1997, ISO 105-A03:1993/Cor 2:2005)	2019-04-30	TC 70	Internal combustion engines	
TC 39	Machine tools		ISO/DIS 8178-5	Reciprocating internal combustion engines — Exhaust emission measurement — Part 5: Test fuels (Revision of ISO 8178-5:2015)	2019-05-06
ISO/DIS 19085-14	Woodworking machines — Safety — Part 14: Four-sided moulding machines		TC 76	Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use	
TC 44	Welding and allied processes		ISO/DIS 8871-2	Elastomeric parts for parenterals and for devices for pharmaceutical use — Part 2: Identification and characterization (Revision of ISO 8871-2:2003, ISO 8871-2:2003/Amd 1:2005)	2019-05-09
ISO/DIS 9455-3	Soft soldering fluxes — Test methods — Part 3: Determination of acid value, potentiometric and visual titration methods (Revision of ISO 9455-3:1992)	2019-05-03	ISO 11040-4:2015/DAmD 1	Prefilled syringes — Part 4: Glass barrels for injectables and sterilized subassembled syringes ready for filling — Amendment 1	2019-05-06
TC 45	Rubber and rubber products		TC 79	Light metals and their alloys	
ISO/DIS 125	Natural rubber latex concentrate — Determination of alkalinity  (Revision of ISO 125:2011)	2019-04-30	ISO/DIS 23052	Anodizing of aluminium and its alloy — Test methods of chemical resistance of anodic oxidation coatings on aluminium and its alloys using electromotive force apparatus	2019-04-30
ISO/DIS 4660	Rubber, raw natural — Colour index test  (Revision of ISO 4660:2011)	2019-05-07	TC 83	Sports and other recreational facilities and equipment	
TC 46	Information and documentation				

ISO/DIS 5912	Camping tents — Requirements and test methods	2019-05-03	ISO/DIS 9693	Dentistry — Compatibility testing for metal-ceramic and ceramic-ceramic systems	2019-05-03
	(Revision of ISO 5912:2011)			(Revision of ISO 9693-1:2012, ISO 9693-2:2016)	
ISO/DIS 21924-9	Martial Arts — Protective equipment for martial arts — Part 9: Additional requirements and test method for Wushu Sanda head protectors	2019-05-03	TC 107	Metallic and other inorganic coatings	
TC 84	Devices for administration of medicinal products and catheters		ISO/DIS 6370-2	Vitreous and porcelain enamels — Determination of the resistance to abrasion — Part 2: Loss in mass after sub-surface abrasion (Revision of ISO 6370-2:2011)	
ISO/DIS 23907-2	Sharps injury protection — Requirements and test methods — Part 2: Reusable sharps containers	2019-05-08	ISO/DIS 22462	Metallic and other inorganic coatings — Test methods of friction coefficient measurement of chemical conversion coatings	2019-04-29
TC 85	Nuclear energy, nuclear technologies, and radiological protection		TC 122	Packaging	
ISO/DIS 2889	Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities	2019-05-08	ISO/DIS 4180	Packaging — Complete, filled transport packages — General rules for the compilation of performance test schedules (Revision of ISO 4180:2009)	2019-04-29
	(Revision of ISO 2889:2010)		TC 131	Fluid power systems	
ISO/DIS 8690	Measurement of radioactivity - Gamma ray and beta emitting radionuclides - Test method to assess the ease of decontamination of surface materials (Revision of ISO 8690:1988)	2019-04-30	ISO 6358-1:2013/DAMD 1	Pneumatic fluid power — Determination of flow-rate characteristics of components using compressible fluids — Part 1: General rules and test methods for steady-state flow — Amendment 1: Effective conductance	2019-04-30
ISO/DIS 9978	Radiation protection — Sealed sources — Leakage test methods	2019-04-30	ISO/DIS 6358-2	Pneumatic fluid power — Determination of flow-rate characteristics of components using compressible fluids — Part 2: Alternative test methods (Revision of ISO 6358-2:2013)	2019-04-30
	(Revision of ISO 9978:1992)		TC 135	Non-destructive testing	
ISO/DIS 20785-2	Dosimetry for exposures to cosmic radiation in civilian aircraft — Part 2: Characterization of instrument response (Revision of ISO 20785-2:2011)	2019-05-10	ISO/DIS 23159	Non-destructive testing — Gamma ray scanning method on process columns	2019-04-29
ISO/DIS 10276	Nuclear energy — Fuel technology — Trunnions for packages used to transport radioactive material (Revision of ISO 10276:2010)	2019-05-03	TC 142	Cleaning equipment for air and other gases	
TC 92	Fire safety		ISO/DIS 15727	UV-C devices — Measurement of output of UVC lamp	2019-05-03
ISO/DIS 29903-1	Guidance for the comparison of toxic gas data from different tests — Part 1: General (Revision of ISO 29903:2012)		TC 146	Air quality	
TC 94	Personal safety -- Personal protective equipment		ISO/DIS 12039	Stationary source emissions — Determination of the mass concentration of carbon monoxide, carbon dioxide and oxygen in flue gas — Performance characteristics of automated measuring systems (Revision of ISO 12039:2001)	2019-05-13
ISO/DIS 16073-4	Wildland firefighting personal protective equipment — Requirements and test methods — Part 4: Gloves (Revision of ISO 16073:2011)		TC 147	Water quality	
ISO/DIS 16073-5	Wildland firefighting personal protective equipment — Requirements and test methods — Part 5: Helmets (Revision of ISO 16073:2011)	2019-05-14	ISO/DIS 13161	Water quality — Polonium 210 — Test method using alpha spectrometry (Revision of ISO 13161:2011)	2019-05-01
TC 98	Bases for design of structures		TC 149	Cycles	
ISO/DIS 22111	Bases for design of structures — General requirements (Revision of ISO 22111:2007)	2019-05-10	ISO/DIS 4210-10	Cycles — Safety requirements for bicycles — Part 10: Safety requirements for electrically power assisted cycles (EPACs)	2019-05-13
TC 106	Dentistry				

ISO/DIS 8090	Cycles — Terminology  (Revision of ISO 8090:1990)	2019-05-14	ISO/IEC 9594-1:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 1: Overview of concepts, models and services — Amendment 1: General updates	2019-05-09
TC 172	Optics and photonics				
ISO/DIS 9336-3	Optics and photonics — Optical transfer function — Application — Part 3: Telescopes (Revision of ISO 9336-3:1994)		ISO/IEC 9594-2:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 2: Models — Amendment 1: General updates	2019-05-09
ISO/DIS 14490-9	Optics and photonics — Test methods for telescopic systems — Part 9: Test methods for field curvature	2019-04-29	ISO/IEC 9594-3:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 3: Abstract service definition — Amendment 1: General updates	2019-05-09
TC 176	Quality management and quality assurance				
ISO/DIS 10015	Quality management — Guidelines for competence management and people development  (Revision of ISO 10015:1999)	2019-05-03	ISO/IEC 9594-4:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 4: Procedures for distributed operation — Amendment 1: General updates	2019-05-09
ISO/DIS 10018	Quality management systems — Guidelines on people engagement  (Revision of ISO 10018:2012)	2019-05-03	ISO/IEC 9594-5:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 5: Protocol specifications — Amendment 1: General updates	2019-05-09
TC 204	Intelligent transport systems				
ISO/DIS 15638-20	Intelligent transport systems — Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) — Part 20: Weigh-in-motion monitoring	2019-05-02	ISO/IEC 9594-6:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 6: Selected attribute types — Amendment 1: General updates	2019-05-09
TC 212	Clinical laboratory testing and in vitro diagnostic test systems				
ISO/DIS 22367	Medical laboratories — Application of risk management to medical laboratories  (Revision of ISO/TS 22367:2008, ISO/TS 22367:2008/Cor 1:2009)	2019-04-29	ISO/IEC 9594-7:2017/DAmd 1	Information technology — Open Systems Interconnection — The Directory — Part 7: Selected object classes — Amendment 1: General updates	2019-05-09
TC 219	Floor coverings				
ISO/DIS 24334	Laminate floor coverings — Determination of locking strength for mechanically assembled panels (Revision of ISO 24334:2014)	2019-04-29	ISO/IEC/IEEE DIS 21840	Information technology — Open Systems Interconnection — The Directory — Part 8: Public-key and attribute certificate frameworks — Amendment 1: General updates	2019-05-09
TC 269	Railway applications				
ISO/DIS 22074-1	Railway applications — Infrastructure — Rail fastening systems — Part 1: Terms and definitions	2019-04-29	ISO/IEC DIS 10373-1	Information technology — Open Systems Interconnection — The Directory — Part 9: Replication — Amendment 1: General updates	2019-05-09
TC 301	Energy management and energy savings				
ISO/DIS 50004	Energy management systems — Guidance for the implementation, maintenance and improvement of an energy management system (Revision of ISO 50004:2014)	2019-05-07	ISO/IEC/IEEE DIS 21840	Systems and software engineering — Guidelines for the utilization of ISO/IEC/IEEE 15288 in the context of System of Systems (SoS)	2019-05-03
TC 304	Healthcare organization management				
ISO/DIS 22886	Healthcare organization management — Vocabulary	2019-05-13	ISO/IEC DIS 22505	Information technology — Open Systems Interconnection — The Directory — Part 10: Security techniques — Prime number generation  (Revision of ISO/IEC 18032:2005)	2019-05-01
JTC 1	Information technology				
			ISO/IEC DIS 19823-10	Information technology — Security techniques — Prime number generation  (Revision of ISO/IEC 18032:2005)	2019-05-01
				Information technology — Conformance test methods for security service crypto suites — Part 10: Crypto suite AES-128	2019-04-30

ISO/IEC DIS 21471	(Revision of ISO/IEC 19823-10:2017) Information technology — Automatic identification and data capture techniques — Extended Rectangular Data Matrix (DMRE) bar code symbology specification	2019-04-30	ISO/FDIS 5628	Paper and board — Determination of bending stiffness — General principles for two-point, three-point and four-point methods (Revision of ISO 5628:2012)	2019-04-16
ISO/IEC DIS 39794-4	Information technology — Extensible biometric data interchange formats — Part 4: Finger image data	2019-05-15	TC 8	Ships and marine technology	
ISO/IEC DIS 22624	Information technology — Cloud Computing — Taxonomy based data handling for cloud services	2019-05-13	ISO/FDIS 11711-1	Ships and marine technology — Aquatic nuisance species — Part 1: Ballast water discharge sample port (Revision of ISO 11711-1:2013)	2019-04-15
ISO/IEC DIS 38506	Information technology — Governance of IT — Application of ISO/IEC 38500 to the governance of IT enabled investments		ISO/FDIS 20602	Ships and marine technology — Check valves for use in low temperature applications — Design and testing requirements	2019-04-09
			ISO/FDIS 21125	Ships and marine technology — Marine cranes — Manufacturing requirements	2019-04-24
			ISO/FDIS 21132	Ships and marine technology — Marine cranes — Operation and maintenance requirements	2019-04-01

## FDIS circulated

Period from 01 February to 28 February 2019

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

\* Available in English only

TC 12	Quantities and units				
ISO/FDIS 80000-2	Quantities and units — Part 2: Mathematics				2019-04-04
				(Revision of ISO 80000-2:2009)	
ISO/FDIS 80000-3	Quantities and units — Part 3: Space and time				2019-04-04
				(Revision of ISO 80000-3:2006)	
ISO/FDIS 80000-4	Quantities and units — Part 4: Mechanics				2019-04-04
				(Revision of ISO 80000-4:2006)	
ISO/FDIS 80000-5	Quantities and units — Part 5: Thermodynamics				2019-04-04
				(Revision of ISO 80000-5:2007)	
ISO/FDIS 80000-7	Quantities and units — Part 7: Light and radiation				2019-04-04
				(Revision of ISO 80000-7:2008)	
ISO/FDIS 80000-8	Quantities and units — Part 8: Acoustics				2019-04-04
				(Revision of ISO 80000-8:2007)	
ISO/FDIS 80000-9	Quantities and units — Part 9: Physical chemistry and molecular physics				2019-04-04
				(Revision of ISO 80000-9:2009, ISO 80000-9:2009/Amd 1:2011)	
ISO/FDIS 80000-10	Quantities and units — Part 10: Atomic and nuclear physics				2019-04-04
				(Revision of ISO 80000-10:2009)	
ISO/FDIS 80000-11	Quantities and units — Part 11: Characteristic numbers				2019-04-04
				(Revision of ISO 80000-11:2008)	

CIE	International Commission on Illumination				
ISO/CIE FDIS 11664-4	Colorimetry — Part 4: CIE 1976 L*a*b* colour space	2019-05-07			
				(Revision of ISO 11664-4:2008)	
ISO/CIE FDIS 17166	Erythema reference action spectrum and standard erythema dose	2019-04-08			
				(Revision of ISO 17166:1999)	
TC 2	Fasteners				
ISO/FDIS 15480	Fasteners — Hexagon washer head drilling screws with tapping screw thread	2019-04-23			
				(Revision of ISO 15480:1999)	
TC 4	Rolling bearings				
ISO/FDIS 355	Rolling bearings — Tapered roller bearings — Boundary dimensions and series designations	2019-04-15			
				(Revision of ISO 355:2007, ISO 355:2007/Amd 1:2012)	
TC 6	Paper, board and pulps				
ISO/FDIS 5647	Paper and board — Determination of titanium dioxide content	2019-04-11			
				(Revision of ISO 5647:1990)	



ISO/FDIS 80000-12	Quantities and units — Part 12: Condensed matter physics  (Revision of ISO 80000-12:2009)	2019-04-04	ISO/FDIS 3251	Paints, varnishes and plastics — Determination of non-volatile- matter content  (Revision of ISO 3251:2008)	2019-04-12
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IULTCS	International Union of Leather Technologists and Chemists Societies				

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New International Standards published between 01 February and 28 February 2019

<sup>1</sup> delayed publication of language version

<sup>2</sup> corrected version

<sup>3</sup> multilingual document

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ISO 29463-2:2011	fr <sup>1</sup>	High-efficiency filters and filter media for removing particles in air — Part 2: Aerosol production, measuring equipment and particle-counting statistics	D	ISO 23500-5:2019	en fr	Preparation and quality management of fluids for haemodialysis and related therapies — Part 5: Quality of dialysis fluid for haemodialysis and related therapies	C
TC 145		Graphical symbols		TC 154		Processes, data elements and documents in commerce, industry and administration	
ISO 7010:2011/ Amd 9:2018	fr <sup>1</sup>	Graphical symbols — Safety colours and safety signs — Registered safety signs — Amendment 9	XZ	ISO 8601-1:2019	en	Date and time — Representations for information interchange — Part 1: Basic rules	F
TC 146		Air quality		ISO 8601-2:2019	en	Date and time — Representations for information interchange — Part 2: Extensions	G
ISO 19926-1:2019	en fr	Meteorology — Weather radar — Part 1: System performance and operation	H	TC 159		Ergonomics	
TC 147		Water quality		ISO 27501:2019	en fr	The human-centred organization — Guidance for managers	E
ISO/TS 21231:2019	en	Water quality — Characterization of analytical methods — Guidelines for the selection of a representative matrix	E	TC 165		Timber structures	
ISO 10704:2019	en fr	Water quality — Gross alpha and gross beta activity — Test method using thin source deposit	D	ISO 16696-1:2019	en	Timber structures — Cross laminated timber — Part 1: Component performance, production requirements and certification scheme	D
TC 150		Implants for surgery		TC 172		Optics and photonics	
ISO 5832-9:2019	en fr	Implants for surgery — Metallic materials — Part 9: Wrought high nitrogen stainless steel	A	ISO 13666:2019	en fr	Ophthalmic optics — Spectacle lenses — Vocabulary	A
ISO 5832-12:2019	en fr	Implants for surgery — Metallic materials — Part 12: Wrought cobalt-chromium-molybdenum alloy	A	TC 188		Small craft	
ISO 5832-14:2019	en	Implants for surgery — Metallic materials — Part 14: Wrought titanium 15-molybdenum 5-zirconium 3-aluminium alloy	A	ISO 10087:2019	en fr	Small craft — Craft identification — Coding system	A
ISO 5834-1:2019	en fr	Implants for surgery — Ultra-high-molecular-weight polyethylene — Part 1: Powder form	A	TC 189		Ceramic tile	
ISO 5834-2:2019	en fr	Implants for surgery — Ultra-high-molecular-weight polyethylene — Part 2: Moulded forms	A	ISO 10545-4:2019	en fr	Ceramic tiles — Part 4: Determination of modulus of rupture and breaking strength	B
ISO 5834-3:2019	en fr	Implants for surgery — Ultra-high-molecular-weight polyethylene — Part 3: Accelerated ageing methods	A	TC 190		Soil quality	
ISO 5834-4:2019	en fr	Implants for surgery — Ultra-high-molecular-weight polyethylene — Part 4: Oxidation index measurement method	B	ISO 21286:2019	en fr	Soil quality — Identification of ecotoxicological test species by DNA barcoding	D



ISO 23753-1:2019	en fr	Soil quality — Determination of dehydrogenases activity in soils — Part 1: Method using triphenyltetrazolium chloride (TTC)	B	TC 211	Geographic information/ Geomatics		
ISO 23753-2:2019	en fr	Soil quality — Determination of dehydrogenases activity in soils — Part 2: Method using iodotetrazolium chloride (INT)	B	ISO 19112:2019	en fr	Geographic information — Spatial referencing by geographic identifiers	D
TC 194		Biological and clinical evaluation of medical devices		ISO 19127:2019	en	Geographic information — Geodetic register	F
ISO/TS 21726:2019	en	Biological evaluation of medical devices — Application of the threshold of toxicological concern (TTC) for assessing biocompatibility of medical device constituents	B	ISO/TS 19139-1:2019	en	Geographic information — XML schema implementation — Part 1: Encoding rules	F
TC 201		Surface chemical analysis		TC 212	Clinical laboratory testing and in vitro diagnostic test systems		
ISO 20903:2019	en	Surface chemical analysis — Auger electron spectroscopy and X-ray photoelectron spectroscopy — Methods used to determine peak intensities and information required when reporting results	C	ISO 20186-1:2019	en fr	Molecular in vitro diagnostic examinations — Specifications for pre-examination processes for venous whole blood — Part 1: Isolated cellular RNA	D
TC 204		Intelligent transport systems		ISO 20186-2:2019	en fr	Molecular in vitro diagnostic examinations — Specifications for pre-examination processes for venous whole blood — Part 2: Isolated genomic DNA	D
ISO 17262:2012/ Amd 1:2019	en fr	Intelligent transport systems — Automatic vehicle and equipment identification — Numbering and data structures — Amendment 1	XZ	TC 221	Geosynthetics		
ISO 17264:2009/ Amd 1:2019	en	Intelligent transport systems — Automatic vehicle and equipment identification — Interfaces — Amendment 1	XZ	ISO 10320:2019	en	Geosynthetics — Identification on site	A
ISO/TR 24097-3:2019	en	Intelligent transport systems — Using web services (machine-machine delivery) for ITS service delivery — Part 3: Quality of service	F	TC 224	Service activities relating to drinking water supply, wastewater and stormwater systems		
ISO 24534-4:2010/ Amd 1:2019	en fr	Automatic vehicle and equipment identification — Electronic registration identification (ERI) for vehicles — Part 4: Secure communications using asymmetrical techniques — Amendment 1	XZ	ISO/TS 24522:2019	en	Event detection process: Guidelines for water and wastewater utilities	G
ISO 24534-5:2011/ Amd 1:2019	en	Intelligent transport systems — Automatic vehicle and equipment identification — Electronic Registration Identification (ERI) for vehicles — Part 5: Secure communications using symmetrical techniques — Amendment 1	XZ	ISO/TR 24524:2019	en	Service activities relating to drinking water supply, wastewater and stormwater systems — Hydraulic, mechanical and environmental conditions in wastewater transport systems	B
TC 206		Fine ceramics		TC 225	Market, opinion and social research		
ISO 21813:2019	en	Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for chemical analysis of high purity barium titanate powders	D	ISO 20252:2019	en	Market, opinion and social research, including insights and data analytics — Vocabulary and service requirements	G
TC 207		Environmental management		TC 249	Traditional Chinese medicine		
ISO 14033:2019	en	Environmental management — Quantitative environmental information — Guidelines and examples	G	ISO/TS 20758:2019	en	Traditional Chinese medicine — Abdominal physiological parameter detectors	A
TC 210		Quality management and corresponding general aspects for medical devices		ISO 21314:2019	en	Traditional Chinese medicine — Salvia miltiorrhiza root and rhizome	C
ISO 80369-1:2018	fr <sup>1</sup>	Small-bore connectors for liquids and gases in healthcare applications — Part 1: General requirements	E	ISO 21316:2019	en	Traditional Chinese medicine — Isatis indigotica root	C
ISO 80369-3:2016/ Amd 1:2019	en fr	Small-bore connectors for liquids and gases in healthcare applications — Part 3: Connectors for enteral applications — Amendment 1	XZ	ISO 21317:2019	en	Traditional Chinese medicine — Lonicer japonica flower	C

ISO 21370:2019	en	Traditional Chinese medicine — <i>Dendrobium officinale</i> stem	C	CASCO		Committee on conformity assessment	
TC 256		Pigments, dyestuffs and extenders		ISO/IECTS 17021-8:2019	fr <sup>1</sup>	Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 8: Competence requirements for auditing and certification of management systems for sustainable development in communities	B
ISO 473:2019	en	Lithopone pigments — General requirements and methods of testing	B	JTC 1		Information technology	
ISO 787-9:2019	en fr	General methods of test for pigments and extenders — Part 9: Determination of pH value of an aqueous suspension	A	ISO/IEC/IEEE 8802-3:2017/ Amd 10:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 3: Standard for Ethernet — Amendment 10: Media access control parameters, physical layers, and management parameters for 200 Gb/s and 400 Gb/s operation	H
ISO 787-14:2019	en fr	General methods of test for pigments and extenders — Part 14: Determination of resistivity of aqueous extract	A				
ISO 787-25:2019	en fr	General methods of test for pigments and extenders — Part 25: Comparison of the colour, in full-shade systems, of white, black and coloured pigments — Colorimetric method	B	ISO/IEC/IEEE 8802-3:2017/ Amd 11:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 3: Standard for Ethernet — Amendment 11: Physical layer and management parameters for serial 25 Gb/s ethernet operation over single-mode fiber	F
ISO 21683:2019	en	Pigments and extenders — Determination of experimentally simulated nano-object release from paints, varnishes and pigmented plastics	D				
TC 274		Light and lighting					
ISO/CIETS 22012:2019	en	Light and lighting — Maintenance factor determination — Way of working	E	ISO/IEC/IEEE 8802-A:2015/ Amd 2:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Part A: Overview and architecture — Amendment 2: Local medium access control (MAC) address usage	D
TC 279		Innovation management					
ISO 56003:2019	en fr	Innovation management — Tools and methods for innovation partnership — Guidance	D	ISO/IEC/IEEE 8802-11:2018/ Amd 1:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 11: Wireless LAN medium access control (MAC) and physical layer (PHY) specifications — Amendment 1: Fast initial link setup	H
ISO/TR 56004:2019	en	Innovation Management Assessment — Guidance	E				
TC 301		Energy management and energy savings					
ISO 50021:2019	en	Energy management and energy savings — General guidelines for selecting energy savings evaluators	C	ISO/IEC/IEEE 8802-1Q:2016/ Amd 6:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 1Q: Bridges and bridged networks — Amendment 6: Per-stream filtering and policing	G
ISO 50046:2019	en fr	General methods for predicting energy savings	G				
TMBG		Technical Management Board - groups		ISO/IEC/IEEE 8802-1Q:2016/ Amd 7:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 1Q: Bridges and bridged networks — Amendment 7: Cyclic queuing and forwarding	E
IWA 29:2019	en	Professional farmer organization — Guidelines	C				
IULTCS		International Union of Leather Technologists and Chemists Societies		ISO/IEC/IEEE 8802-1CB:2019	en	Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 1CB: Frame replication and elimination for reliability	H
ISO 17072-1:2019	en fr	Leather — Chemical determination of metal content — Part 1: Extractable metals	B				
ISO 17072-2:2019	en fr	Leather — Chemical determination of metal content — Part 2: Total metal content	B	ISO/IEC/IEEE 24748-7:2019	en	Systems and software engineering — Life cycle management — Part 7: Application of systems engineering on defense programs	G



ISO 1268-10:2005	(reconfirmed)
ISO 1268-11:2005	(reconfirmed)
ISO 4603:1993	(reconfirmed)
ISO 4899:1993	(reconfirmed)
ISO 9163:2005	(reconfirmed)
ISO 9782:1993	(reconfirmed)
ISO 10371:1993	(reconfirmed)
ISO 13931:2013	
ISO 17771:2003	(reconfirmed)
TC 85	Nuclear energy, nuclear technologies, and radiological protection
ISO/TS 18090-1:2015	
TC 93	Starch (including derivatives and by-products)
ISO 5378:1978	(reconfirmed)
TC 96	Cranes
ISO 11662-1:1995	(reconfirmed)
TC 98	Bases for design of structures
ISO 9194:1987	(reconfirmed)
TC 104	Freight containers
ISO 6346:1995	
TC 121	Anaesthetic and respiratory equipment
ISO 16571:2014	
TC 131	Fluid power systems
ISO 3939:1977	(reconfirmed)
TC 150	Implants for surgery
ISO 16429:2004	(reconfirmed)
TC 163	Thermal performance and energy use in the built environment
ISO 18096:2013	
ISO 18097:2013	
TC 165	Timber structures
ISO 16507:2013	
TC 176	Quality management and quality assurance
ISO 10008:2013	
TC 204	Intelligent transport systems
ISO 24100:2010	
ISO 24531:2013	
TC 205	Building environment design
ISO 16818:2008	
TC 210	Quality management and corresponding general aspects for medical devices
ISO/TS 19218-1:2011	(reconfirmed)
ISO/TS 19218-2:2012	(reconfirmed)
TC 219	Floor coverings
ISO 10361:2015	
JTC 1	Information technology
ISO/IEC 23917:2005	
ISO/IEC 24786:2009	
ISO/IEC 19788-5:2012	

ISO/IEC 19784-2:2007	(reconfirmed)
ISO/IEC 19795-2:2007	(reconfirmed)
ISO/IEC 24709-2:2007	(reconfirmed)

## Standards withdrawn

Period from 01 February to 28 February 2019

TC 5	Ferrous metal pipes and metallic fittings
ISO 2937:1974	(replaced by )
TC 8	Ships and marine technology
ISO 799:2004	(replaced by ISO 799-1:2019)
TC 22	Road vehicles
ISO 16844-5:2004	(replaced by )
TC 29	Small tools
ISO 6108:1978	(replaced by )
TC 34	Food products
ISO/TS 22117:2010	(replaced by ISO 22117:2019)
TC 61	Plastics
ISO 2580-2:2003	(replaced by ISO 19062-2:2019)
ISO 6402-2:2003	(replaced by ISO 19065-2:2019)
ISO 7391-1:2006	(replaced by ISO 21305-1:2019)
ISO 7391-2:2006	(replaced by ISO 21305-2:2019)
ISO 14663-1:1999	(replaced by ISO 21309-1:2019)
ISO 14663-2:1999	(replaced by ISO 21309-2:2019)
TC 72	Textile machinery and accessories
ISO 572:1976	(replaced by )
TC 85	Nuclear energy, nuclear technologies, and radiological protection
ISO 11929:2010	(replaced by ISO 11929-1:2019, ISO 11929-2:2019, ISO 11929-3:2019)
TC 92	Fire safety
ISO/TS 24679:2011	(replaced by ISO 24679-1:2019)
TC 108	Mechanical vibration, shock and condition monitoring
ISO 19499:2007	(replaced by ISO 21940-1:2019)
TC 150	Implants for surgery
ISO 11663:2014	(replaced by ISO 23500-5:2019)
ISO 13958:2014	(replaced by ISO 23500-4:2019)
ISO 13959:2014	(replaced by ISO 23500-3:2019)
ISO 23500:2014	(replaced by ISO 23500-1:2019)
ISO 26722:2014	(replaced by ISO 23500-2:2019)
TC 154	Processes, data elements and documents in commerce, industry and administration
ISO 8601:2004	(replaced by ISO 8601-1:2019, ISO 8601-2:2019)
TC 207	Environmental management

ISO/TS 14033:2012	(replaced by ISO 14033:2019)
TC 211	Geographic information/Geomatics
ISO/TS 19127:2005	(replaced by ISO 19127:2019)
ISO/TS 19139:2007	(replaced by ISO/TS 19139-1:2019)
TC 225	Market, opinion and social research
ISO 26362:2009	(replaced by ISO 20252:2019)
TC 226	Materials for the production of primary aluminium
ISO 5930:1979	(replaced by )
JTC 1	Information technology
ISO/IEC TS 18822:2015	(replaced by )
ISO 8378-1:1986	(replaced by )

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## Meeting calendar

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