

# ISO Update

Supplement to ISOfocus

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September 2021

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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 August to 01 September 2021

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 9184-1	Paper, board and pulps — Fibre furnish analysis — Part 1: General method
ISO/CD 187.2	Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples
TC 8	Ships and marine technology
ISO/CD 4679	Ships and marine technology — Hydraulic performance tests for waterjet propulsion system
ISO/CD 5694	Ships and marine technology — Deck covering
ISO/CD 24681	Ships and marine technology — Fiber-reinforced polymer gratings
TC 17	Steel
ISO/DTS 6084	Steel and steel products — Vocabulary relating to chemical analysis
TC 20	Aircraft and space vehicles
ISO/CD 24065	Aerospace — High power solid state power controller — General performance requirements
ISO/CD 24113	Space systems — Space debris mitigation requirements
TC 22	Road vehicles
ISO/DTR 6409	Road vehicles — Analysis of technical changes of ISO 5011:2020
ISO/CD 19612	Road vehicles — Diesel engine fuel filters — Single pass method of evaluating filtration performance of a fuel filter under cyclic flow conditions in combination with mechanical vibration
TC 23	Tractors and machinery for agriculture and forestry
ISO/CD 24120-2	Irrigation and drainage equipment and systems — Guideline on the implementation of pressurized irrigation systems — Part 2: Drip irrigation

TC 28	Petroleum and related products, fuels and lubricants from natural or synthetic sources
ISO/CD 17308	Petroleum products and other liquids — Ethanol — Determination of electrical conductivity
TC 34	Food products
ISO/CD 20715	Tea classification
TC 35	Paints and varnishes
ISO/CD 4618	Paints and varnishes — Terms and definitions
TC 37	Language and terminology
ISO/CD 24620-4	Language resource management — Controlled human communication (CHC) — Part 4: Multilingual technical requirements
TC 38	Textiles
ISO/CD 9073-18	Nonwovens — Test methods — Part 18: Determination of breaking strength and elongation of nonwoven materials using the grab tensile test
ISO/CD 17751-1	Textiles — Quantitative analysis of cashmere, wool, other specialty animal fibers and their blends — Part 1: Light microscopy method
ISO/CD 17751-2	Textiles — Quantitative analysis of cashmere, wool, other specialty animal fibers and their blends — Part 2: Scanning electron microscopy method
TC 44	Welding and allied processes
ISO/CD 17663	Welding — Quality requirements for heat treatment in connection with welding and allied processes
TC 52	Light gauge metal containers
ISO/DTS 21985.2	Light gauge metal containers — Non-refillable LPG cartridges
TC 61	Plastics
ISO/CD 5430	Plastics — Marine ecotoxicity testing scheme for soluble breakdown intermediates from biodegradable plastic materials used in and intentionally added to the marine environment — Test methods and requirements
TC 68	Financial services
ISO/CD 19092	Financial services — Biometrics — Security framework
TC 79	Light metals and their alloys
ISO/CD 21334	Titanium and titanium alloys — Strip for welded tubes — Technical delivery conditions
TC 83	Sports and other recreational facilities and equipment
ISO/CD 7152	Camping tents and caravan awnings — Vocabulary and list of equivalent terms
TC 85	Nuclear energy, nuclear technologies, and radiological protection
ISO/CD 7097-2	Nuclear fuel technology — Determination of uranium in solutions, uranium hexafluoride and solids — Part 2: Iron(II) reduction/cerium(IV) oxidation titrimetric method
TC 92	Fire safety
ISO/DTR 24188	Large outdoor fires and the built environment — Global overview of different approaches for standardization
TC 94	Personal safety -- Personal protective equipment

ISO 21420:2020/ DAmd 1	Protective gloves — General requirements and test methods — Amendment 1	ISO/CD 14093	Mechanism for financing local adaptation to climate change: Performance-based climate resilience grants
TC 96	Cranes	TC 211	Geographic information/Geomatics
ISO/CD 12480-1	Cranes — Safe use — Part 1: General	ISO/CD 19144-2	Geographic information — Classification systems — Part 2: Land Cover Meta Language (LCML)
ISO/CD 12480-1	Cranes — Safe use — Part 1: General	TC 215	Health informatics
ISO/CD 23853	Cranes — Training of slingers and signallers	ISO/DTS 17975	Health informatics — Principles and data requirements for consent in the Collection, Use or Disclosure of personal health information
TC 102	Iron ore and direct reduced iron	TC 249	Traditional Chinese medicine
ISO/CD 18239-1	Iron ores — Determination of loss on ignition — Part 1: Single micro sample TGA	ISO/DTS 6304	Traditional Chinese medicine — Categorical structure for disorder
ISO/CD 18240	Iron ores — Determination of chromium, arsenic, cadmium, lead and mercury — Inductively coupled plasma-mass spectrometric method	TC 260	Human resource management
TC 122	Packaging	ISO/CD 30405	Human resource management — Guidelines on recruitment
ISO/DTR 22251-2	Application Guideline for use of RFID on Returnable Transport Items — Part 2: For Plastic RTIs	TC 261	Additive manufacturing
TC 135	Non-destructive testing	ISO/ASTM DTR 52905	Additive manufacturing of metals — Non-destructive testing and evaluation — Defect detection in parts
ISO/CD 24367	Non-destructive testing — Acoustic emission testing —Metallic pressure equipment	TC 267	Facility management
TC 156	Corrosion of metals and alloys	ISO/CD 41015.2	Facility management - Influencing behaviours for improved outcomes and user experience
ISO/CD 5668	Corrosion of metals and alloys — Guidelines for corrosion testing in simulated environment of deep-sea water	TC 274	Light and lighting
ISO/DTR 7655	Corrosion of metals and alloys- Guidelines for metal corrosion protection when using disinfectants	ISO/CIE DTR 21783.2	Light and lighting - Integrative lighting - Non-visual effects
TC 157	Non-systemic contraceptives and STI barrier prophylactics	TC 276	Biotechnology
ISO/DTR 23148	Compatibility of lubricants with synthetic male condoms	ISO/CD 20688-2	Biotechnology — Nucleic acid synthesis — Part 2: General definitions and requirements for the production and quality control of synthesized gene fragment, gene, and genome
TC 159	Ergonomics	ISO/CD 24190	Biotechnology — Analytical Methods — Risk-based approach for method selection and validation for rapid microbial detection in bioprocesses
ISO/CD 24505-2	Ergonomics — Accessible design — Method for creating colour combinations — Part 2: For people with defective colour vision and people with low vision	TC 279	Innovation management
TC 182	Geotechnics	ISO/CD 56007	Innovation management — Tools and methods for idea management — Guidance
ISO/CD 22477-2	Geotechnical investigation and testing — Testing of geotechnical structures — Part 2: Testing of piles : Static tension load testing	TC 292	Security and resilience
TC 188	Small craft	ISO/CD 22328-2	Security and resilience — Emergency management — Part 2: Guidelines for the implementation of a community-based landslide early warning system
ISO 13297:2020/ CD Amd 1	Small craft — Electrical systems — Alternating and direct current installations — Amendment 1	ISO/CD 22388	Security and resilience — Authenticity, integrity and trust for products and documents — Guidelines for securing physical documents
ISO 25197:2020/ CD Amd 1	Small craft — Electrical/electronic control systems for steering, shift and throttle — Amendment 1	TC 304	Healthcare organization management
TC 199	Safety of machinery	ISO/CD 7101	Health Care Quality Management System Standard
ISO/CD 11161	Safety of machinery — Integration of machinery into a system — Basic requirements	JTC 1	Information technology
TC 201	Surface chemical analysis	ISO/IEC CD 3532-2	Information technology — 3D Printing and scanning — Medical image-Based modelling — Part 2: Segmentation
ISO/DTS 22933	Surface chemical analysis-Secondary ion mass spectrometry- Method for the measurement of mass resolution in SIMS	ISO/IEC 10646:2020/ CD Amd 1	Information technology — Universal coded character set (UCS) — Amendment 1: Information technology — Universal coded character set (UCS) — Amendment 1: CJK Unified Ideographs Extension H, Vithkuqi, Old Uyghur, Cypro-Minoan, and other characters
TC 204	Intelligent transport systems	ISO/IEC/IEEE CD 15288.2	Systems and software engineering — System life cycle processes
ISO/CD 14823-1	Intelligent transport systems — Graphic data dictionary — Part 1: Specification	ISO/IEC CD 25002.2	Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Quality models overview and usage
TC 207	Environmental management		
ISO/DTR 14055-2	Environmental management — Guidelines for establishing good practices for combatting land degradation and desertification — Part 2: Regional case studies		

ISO/IEC DTS 25052-1.2	Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE): cloud services — Part 1: Quality model	ISO/DIS 4370	Environmental life cycle assessment and recycling of ductile iron pipes for water applications	2021-10-26
ISO/IEC/IEEE CD 26531	Systems and software engineering — Content management for product life-cycle, user and service management documentation	TC 6	Paper, board and pulps	
ISO/IEC DTR 5895	Multi-party coordinated vulnerability disclosure and handling	ISO/DIS 24215	Lignins — Determination of carbohydrate composition in kraft lignin, soda lignin and hydrolysis lignin	2021-11-15
ISO/IEC CD 15775	Information technology — Office equipment — Method of specifying image reproduction of colour copying machines and multifunction devices with copying modes by printed test charts	TC 8	Ships and marine technology	
ISO/IEC CD 15444-8	Information technology — JPEG 2000 image coding system — Part 8: Secure JPEG 2000	ISO/DIS 23678-1	Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear — Part 1: General requirements for training providers (Revision of ISO/PAS 23678-1:2020)	2021-11-09
ISO/IEC CD 15444-9	Information technology — JPEG 2000 image coding system — Part 9: Interactivity tools, APIs and protocols			
ISO/IEC CD 18181-3	Information technology — JPEG XL Image Coding System — Part 3: Conformance testing			
ISO/IEC CD 21122-4	Information technology — JPEG XS low-latency lightweight image coding system — Part 4: Conformance testing	ISO/DIS 23678-2	Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear — Part 2: Service personnel initial training (Revision of ISO/PAS 23678-2:2020)	2021-11-09
ISO/IEC CD 21122-5	Information technology — JPEG XS low-latency lightweight image coding system — Part 5: Reference software			
ISO/IEC CD 23090-11	Information technology — Coded representation of immersive media — Part 11: Network-based media processing implementation guidelines			
ISO/IEC CD 23090-13	Information technology — Coded representation of immersive media — Part 13: Video Decoding Interface for Immersive Media	ISO/DIS 23678-3	Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear — Part 3: Level 1 technical training (Revision of ISO/PAS 23678-3:2020)	2021-11-09
ISO/IEC CD 24741	Information technology — Biometrics — Overview and application			
ISO/IEC CD 42001	Information Technology — Artificial intelligence — Management system			

## DIS circulated

Period from 01 August to 01 September 2021

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 2	Fasteners			
ISO/DIS 898-2	Fasteners — Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes (Revision of ISO 898-2:2012)			2021-11-22
TC 5	Ferrous metal pipes and metallic fittings			
		ISO/DIS 24452	Ships and marine technology — Personal and group survival kit for use in polar water	2021-10-25
		ISO/DIS 24224	Ships and marine technology — Tanker cargo manifold shore connection — Technical requirements	2021-11-24
		ISO/DIS 24316	Ships and marine technology — Design and testing specification for steel doors using electrical resistance trace heating	2021-10-26
		ISO/DIS 24319	Ships and marine technology — Design and test requirements for electrical trace heating small steel hatches	2021-10-26
		TC 20	Aircraft and space vehicles	

ISO/DIS 23135	Space systems — Verification programme and management process	2021-10-26	ISO/DIS 12164-3	Hollow taper interface with flange contact surface — Part 3: Shanks of type T, TA and U	2021-10-27
ISO/DIS 24246	Space systems — Requirements for Global Navigation Satellite System (GNSS) positioning augmentation centers	2021-11-23	ISO/DIS 12164-4	(Revision of ISO 12164-3:2014) Hollow taper interface with flange contact surface — Part 4: Receivers of type T and U for hollow taper shanks of type T, TA and U	2021-10-27
TC 21	Equipment for fire protection and fire fighting			(Revision of ISO 12164-4:2014)	
ISO/DIS 7240-12	Fire detection and alarm systems — Part 12: Line type smoke detectors using a transmitted optical beam (Revision of ISO 7240-12:2014)	2021-11-24	ISO/DIS 12164-5	Hollow taper interface with flange contact surface — Part 5: Shanks of type AS, CS and ES	2021-10-27
TC 22	Road vehicles		ISO/DIS 12164-6	Hollow taper interface with flange contact surface — Part 6: Receivers of type AS, CS and ES for hollow taper shanks of type AS, CS and ES	2021-10-27
ISO/DIS 22139	Heavy commercial vehicles and buses — Test method for steering effort measurement when manoeuvring at low speed or with stationary vehicle	2021-11-15	TC 34	Food products	
ISO/DIS 23365	Heavy commercial vehicles and buses — Definitions of properties for the determination of suspension kinematic and compliance characteristics	2021-11-16	ISO/DIS 23318	Milk, dried milk products and cream — Determination of fat content — Gravimetric method	2021-11-22
ISO/DIS 15830-1	Road vehicles — Design and performance specifications for the WorldSID 50th percentile male side-impact dummy — Part 1: Terminology and rationale (Revision of ISO 15830-1:2013)	2021-11-08	ISO/DIS 16577	Molecular biomarker analysis — Vocabulary for molecular biomarker analytical methods in agriculture and food production (Revision of ISO 16577:2016)	2021-11-08
TC 23	Tractors and machinery for agriculture and forestry		ISO/DIS 22003-1	Food safety management systems — Requirements for bodies providing audit and certification of food safety management systems — Part 1: Requirements for bodies providing audit and certification of food safety management systems (Revision of ISO/TS 22003:2013)	2021-11-03
ISO/DIS 11783-13	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 13: File server (Revision of ISO 11783-13:2011)	2021-11-15	ISO/DIS 22003-2	Food safety management systems — Requirements for bodies providing audit and certification of food safety management systems — Part 2: Requirements for bodies providing evaluation and certification of products, processes and services, including an audit of the food safety system	2021-11-03
TC 24	Particle characterization including sieving		TC 38	Textiles	
ISO/DIS 13317-1	Determination of particle size distribution by gravitational liquid sedimentation methods — Part 1: General principles and guidelines (Revision of ISO 13317-1:2001)	2021-11-02	ISO/DIS 24040	Textiles — Determination of certain benzotriazole compounds	2021-11-08
TC 28	Petroleum and related products, fuels and lubricants from natural or synthetic sources		TC 41	Pulleys and belts (including veebelts)	
ISO/DIS 20782	Petroleum products and other liquids — Ethanol — Test method for pH determination of ethanol fuel	2021-11-15	ISO/DIS 13050	Synchronous belt drives — Metric pitch, curvilinear profile systems G, H, R and S, belts and pulleys (Revision of ISO 13050:2014)	2021-11-08
TC 29	Small tools		TC 44	Welding and allied processes	
ISO/DIS 12164-1	Hollow taper interface with flange contact surface — Part 1: Shanks of types A, AB, C, CB and EB (Revision of ISO 12164-1:2001)	2021-10-27	ISO/DIS 18274	Welding consumables — Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys — Classification (Revision of ISO 18274:2010)	2021-11-15
ISO/DIS 12164-2	Hollow taper interface with flange contact surface — Part 2: Receivers of type A, C and E for hollow taper shanks of type A, AB, C, CB and EB (Revision of ISO 12164-2:2001)	2021-10-27			

ISO/DIS 5817	Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections (Revision of ISO 5817:2014)	2021-10-28	ISO/DIS 19650-4	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 4: Information exchange	2021-11-03
ISO/DIS 15610	Specification and qualification of welding procedures for metallic materials — Qualification based on tested welding consumables (Revision of ISO 15610:2003)	2021-11-15	ISO/DIS 29481-3	Building information models — Information delivery manual — Part 3: Data schema and code	2021-11-23
ISO/DIS 17660	Welding Welding of reinforcing steel  (Revision of ISO 17660-1:2006, ISO 17660-2:2006)	2021-11-15	TC 61 ISO/DIS 23927	Plastics Laminates and moulding compounds — Prepregs — Determination of tack	2021-10-25
TC 45	Rubber and rubber products		ISO/DIS 5148	Plastics — Determination of specific aerobic biodegradation rate of solid plastic materials and disappearance time (DT50) under mesophilic laboratory test conditions	2021-11-05
ISO/DIS 34-1	Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces (Revision of ISO 34-1:2015)	2021-11-16	TC 70	Internal combustion engines	
ISO/DIS 2006-1	Rubber latex, synthetic — Determination of mechanical stability — Part 1: High-speed method  (Revision of ISO 2006-1:2009)	2021-11-24	ISO/DIS 7967-11	Reciprocating internal combustion engines — Vocabulary of components and systems — Part 11: Fuel systems (Revision of ISO 7967-11:2014)	2021-11-08
TC 46	Information and documentation		TC 72	Textile machinery and accessories	
ISO/DIS 13008	Information and documentation — Digital records conversion and migration process  (Revision of ISO 13008:2012)	2021-11-04	ISO/DIS 8115-1	Cotton bales — Dimensions and density  (Revision of ISO 8115:1986)	2021-10-28
ISO/DIS 30302	Information and documentation — Management systems for records — Guidelines for implementation (Revision of ISO 30302:2015)	2021-11-22	ISO/DIS 8115-3	Bales — Part 3: Bales of cotton — Packaging and labelling  (Revision of ISO 8115-3:1995)	2021-10-28
TC 48	Laboratory equipment		TC 94	Personal safety -- Personal protective equipment	
ISO/DIS 5215	Laboratory plastic ware — Volumetric flasks	2021-10-27	ISO/DIS 16976-1	Respiratory protective devices — Human factors — Part 1: Metabolic rates and respiratory flow rates (Revision of ISO/TS 16976-1:2015)	2021-11-11
TC 59	Buildings and civil engineering works		ISO/DIS 16976-2	Respiratory protective devices — Human factors — Part 2: Anthropometrics  (Revision of ISO/TS 16976-2:2015)	2021-11-11
ISO/DIS 4781	Building and civil engineering sealants — Determination of application life	2021-10-28	ISO/DIS 16976-3	Respiratory protective devices — Human factors — Part 3: Physiological responses and limitations of oxygen and limitations of carbon dioxide in the breathing environment (Revision of ISO/TS 16976-3:2019)	2021-11-11
ISO/DIS 4784	Building and civil engineering sealants — Determination of surface cure time	2021-10-28	TC 106	Dentistry	
ISO/DIS 11617	Building and civil engineering sealants — Determination of changes in cohesion and appearance of elastic weatherproofing sealants after exposure of statically cured specimens to artificial weathering and mechanical cycling (Revision of ISO 11617:2014)	2021-10-26	ISO/DIS 9333	Dentistry — Brazing materials  (Revision of ISO 9333:2006)	2021-11-02
ISO/DIS 12006-3	Building construction — Organization of information about construction works — Part 3: Framework for object-oriented information (Revision of ISO 12006-3:2007)	2021-11-01			

TC 108	Mechanical vibration, shock and condition monitoring		ISO/DIS 4437-3	Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 3: Fittings	2021-11-04
ISO/DIS 14839-5	Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings — Part 5: Touch-down bearings	2021-11-15		(Revision of ISO 4437-3:2014)	
ISO/DIS 20816-3	Mechanical vibration — Measurement and evaluation of machine vibration — Part 3: Industrial machinery with a power rating above 15 kW and operating speeds between 120 min <sup>-1</sup> and 30 000 min <sup>-1</sup> (Revision of ISO 10816-3:2009, ISO 10816-3:2009/Amd 1:2017, ISO 7919-3:2009, ISO 7919-3:2009/Amd 1:2017)	2021-11-01	ISO/DIS 4437-5	Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 5: Fitness for purpose of the system (Revision of ISO 4437-5:2014)	2021-11-04
			ISO/DIS 13844	Plastics piping systems — Elastomeric-sealing-ring-type socket joints for use with plastic pipes — Test method for leak tightness under negative pressure, angular deflection and deformation (Revision of ISO 13844:2015)	2021-11-01
TC 121	Anaesthetic and respiratory equipment		TC 145	Graphical symbols	
ISO/DIS 80601-2-12	Medical electrical equipment — Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators (Revision of ISO 80601-2-12:2020)	2021-10-26	ISO 7010:2019/DAmd 127	Graphical symbols — Safety colours and safety signs — Registered safety signs — Amendment 127: Safety sign P074 : Child seat installation prohibited	2021-11-04
TC 127	Earth-moving machinery		TC 146	Air quality	
ISO/DIS 12509	Earth-moving machinery and rough-terrain trucks — Lighting, signalling and marking lights, and reflex reflector devices (Revision of ISO 12509:2004)	2021-11-18	ISO/DIS 23861	Workplace air — Chemical agent present as a mixture of airborne particles and vapours — Requirements for evaluation of measuring procedures using samplers	2021-11-16
TC 130	Graphic technology		TC 150	Implants for surgery	
ISO/DIS 5776	Graphic technology — Symbols for text proof correction (Revision of ISO 5776:2016)	2021-11-01	ISO 18242:2016/DAmd 1	Cardiovascular implants and extracorporeal systems — Centrifugal blood pumps — Amendment 1: Worst-case conditions for testing	2021-11-24
TC 131	Fluid power systems		TC 154	Processes, data elements and documents in commerce, industry and administration	
ISO/DIS 4405	Hydraulic fluid power — Fluid contamination — Determination of particulate contamination by the gravimetric method (Revision of ISO 4405:1991)	2021-11-04	ISO/DIS 5054-1	Specification for an Enterprise Canonical Model — Part 1: Architecture	2021-11-23
ISO/DIS 11171	Hydraulic fluid power — Calibration of automatic particle counters for liquids (Revision of ISO 11171:2020)	2021-11-01	ISO/DIS 9735-10	Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 2) — Part 10: Syntax service directories (Revision of ISO 9735-10:2014)	2021-11-11
TC 134	Fertilizers, soil conditioners and beneficial substances		TC 156	Corrosion of metals and alloys	
ISO/DIS 8157	Fertilizers, soil conditioners and beneficial substances — Vocabulary (Revision of ISO 8157:2015)	2021-11-15	ISO/DIS 4215	Corrosion of metals and alloys — Test method for high-temperature corrosion testing of metallic materials by thermogravimetry under isothermal or cyclic conditions	2021-10-26
TC 138	Plastics pipes, fittings and valves for the transport of fluids		TC 171	Document management applications	
ISO/DIS 4437-1	Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 1: General (Revision of ISO 4437-1:2014)	2021-11-04	ISO/DIS 4669	Document management — Information classification, marking and handling	2021-11-08
ISO/DIS 4437-2	Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 2: Pipes (Revision of ISO 4437-2:2014)	2021-11-04	TC 172	Optics and photonics	
			ISO/DIS 9022-3	Optics and photonics — Environmental test methods — Part 3: Mechanical stress	2021-10-27

(Revision of ISO 9022-3:2015)				
TC 173	Assistive products		ISO/DIS 18113-3	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 3: In vitro diagnostic instruments for professional use (Revision of ISO 18113-3:2009)
ISO/DIS 7176-25	Wheelchairs — Part 25: Lead-acid batteries and chargers for powered wheelchairs — Requirements and test methods (Revision of ISO 7176-25:2013)	2021-10-27		2021-10-25
ISO/DIS 16840-11	Wheelchair seating — Part 11: The determination of dissipation characteristics of sensible perspiration into seat cushions (Revision of ISO/TS 16840-11:2014)	2021-10-27	ISO/DIS 18113-4	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 4: In vitro diagnostic reagents for self-testing (Revision of ISO 18113-4:2009)
TC 178	Lifts, escalators and moving walks		ISO/DIS 18113-5	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 5: In vitro diagnostic instruments for self-testing (Revision of ISO 18113-5:2009)
ISO/DIS 8102-20	Electrical requirements for lifts, escalators and moving walks — Part 20: Cybersecurity	2021-11-22		2021-10-25
TC 194	Biological and clinical evaluation of medical devices		TC 215	Health informatics
ISO 10993-18:2020/DAMd 1	Biological evaluation of medical devices — Part 18: Chemical characterization of medical device materials within a risk management process — Amendment 1: Determination of the uncertainty factor	2021-11-08	ISO/DIS 13119	Health informatics — Clinical knowledge resources — Metadata (Revision of ISO 13119:2012)
TC 201	Surface chemical analysis		TC 228	Tourism and related services
ISO/DIS 18115-3	Surface chemical analysis — Vocabulary — Part 3: Terms used in optical interface analysis	2021-10-27	ISO/DIS 24063	Recreational diving services — Requirements for rebreather diver training — No-decompression diving
TC 206	Fine ceramics		ISO/DIS 24642	Recreational diving services — Requirements for rebreather diver training — Decompression diving to 45 m
ISO/DIS 24046	Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods of tests for reinforcements — Determination of the tensile properties of resin-impregnated yarns	2021-10-27	TC 249	Traditional Chinese medicine
TC 207	Environmental management		ISO/DIS 4154	Traditional Chinese Medicine — Sinomenium acutum stem
ISO/DIS 14017	Environmental management — Requirements with guidance for verification and validation of water statements	2021-11-15		2021-10-28
TC 212	Clinical laboratory testing and in vitro diagnostic test systems		TC 261	Additive manufacturing
ISO/DIS 17593	Clinical laboratory testing and in vitro medical devices — Requirements for in vitro monitoring systems for self-testing of oral anticoagulant therapy (Revision of ISO 17593:2007)	2021-11-24	ISO/ASTM DIS 52920	Additive manufacturing — Qualification principles — Requirements for industrial additive manufacturing sites
ISO/DIS 18113-1	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 1: Terms, definitions, and general requirements (Revision of ISO 18113-1:2009)	2021-10-25	ISO/ASTM DIS 52936-1	Additive manufacturing of polymers — Powder bed fusion — Part 1: General principles and preparation of test specimens for PBF-LB (Revision of ISO 27547-1:2010)
ISO/DIS 18113-2	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 2: In vitro diagnostic reagents for professional use (Revision of ISO 18113-2:2009)	2021-10-25	TC 268	Sustainable cities and communities
			ISO/DIS 37108	Sustainable cities and communities — Business districts — Guidance for practical local implementation of ISO 37101
			TC 269	Railway applications
			ISO/DIS 23019	Railway Applications — Driving simulator for drivers' training
			TC 282	Water reuse
			ISO/DIS 24297	Guidelines for treatment and reuse of leachate from municipal solid waste (MSW) incineration plants
			TC 296	Bamboo and rattan



ISO/DIS 23067 Grading System for Rattan: Guidelines and Classification 2021-10-28

## FDIS circulated

Period from 01 August to 01 September 2021

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 299	Robotics	
IEC 80601-2-77:2019/DAmD 1	Medical electrical equipment — Part 2-77: Particular requirements for the basic safety and essential performance of robotically assisted surgical equipment — Amendment 1	2021-11-19
IEC 80601-2-78:2019/DAmD 1	Medical electrical equipment — Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation — Amendment 1	2021-11-19
TC 306	Foundry machinery	
ISO/DIS 23472-5	Foundry machinery — Vocabulary — Part 5: Cupola furnaces and pouring devices and ladles	2021-11-10
IULTCS	International Union of Leather Technologists and Chemists Societies	
ISO/DIS 15701	Leather — Tests for colour fastness — Colour fastness to migration into polymeric material  (Revision of ISO 15701:2015)	2021-11-17
JTC 1	Information technology	
ISO/IEC DIS 24039	Information Technology — Smart city digital platform reference architecture – Data and service	2021-11-15
ISO/IEC DIS 3721-1	Information technology — Computer graphics, image processing and environmental data representation — Information model for Mixed and Augmented Reality Contents — Part 1: Core Objects and Attributes	2021-11-24
ISO/IEC DIS 23488	Information technology — Computer graphics, image processing and environment data representation — Object/Environmental Representation for Image based Rendering in Virtual/Mixed and Augmented Reality (VR/MAR)	2021-11-18
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<sup>1</sup> delayed publication of language version

<sup>2</sup> corrected version

<sup>3</sup> multilingual document

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ISO/SAE 21434:2021	en	Road vehicles — Cybersecurity engineering	H
ISO 13988:2021	en	Passenger car and light truck vehicle wheels — Clip and adhesive balance weight and rim flange nomenclature, test procedures and performance requirements	C
ISO 6622-1:2021	en	Internal combustion engines — Piston rings — Part 1: Rectangular rings made of cast iron	D
ISO 7299-2:2021	en	Diesel engines — End-mounting flanges for pumps — Part 2: High-pressure supply pumps for common rail fuel injection systems	B
ISO 18669-1:2021	en	Internal combustion engines — Piston pins — Part 1: General specifications	D
TC 23	Tractors and machinery for agriculture and forestry		
ISO 10522:2021	en	Agricultural irrigation equipment — Direct-acting pressure-regulating valves	C
ISO 16438:2021	en	Agricultural irrigation equipment — Thermoplastic collapsible hoses for irrigation — Specifications and test methods	A
TC 27	Coal and coke		
ISO 567:2021	en	Coke — Determination of bulk density in a small container	A
TC 28	Petroleum and related products, fuels and lubricants from natural or synthetic sources		
ISO 11009:2021	en fr	Petroleum products and lubricants — Determination of water washout characteristics of lubricating greases	B
ISO/TS 6521-2:2021	en	Lubricants, industrial oils and related products (Class L) — Family D (Compressors) — Part 2: Specifications of categories DAG, DAH and DAJ (Lubricants for flooded rotary air compressors)	B

			Price group
TC 4	Rolling bearings		
ISO 3031:2021	en fr	Rolling bearings — Thrust needle roller and cage assemblies, thrust washers — Boundary dimensions, geometrical product specifications (GPS) and tolerance values	B
TC 6	Paper, board and pulps		
ISO 12625-7:2021	en fr	Tissue paper and tissue products — Part 7: Determination of optical properties — Measurement of brightness and colour with D65/10° (outdoor daylight)	B
TC 8	Ships and marine technology		
ISO 4568:2021	en	Ships and marine technology — Sea-going vessels — Windlasses and anchor capstans	B
TC 10	Technical product documentation		
ISO 11540:2021	en	Writing and marking instruments — Specification for caps to reduce the risk of asphyxiation	B



TC 29		Small tools		ISO 11125-9:2021	en	Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives — Part 9: Wear testing and performance	C
ISO 11901-3:2021	en fr	Tools for pressing — Gas springs — Part 3: Gas spring with increased spring force and compact built height					C
ISO 11901-4:2021	en fr	Tools for pressing — Gas springs — Part 4: Gas springs with increased spring force and same built height		TC 37		Language and terminology	
				ISO 24617-11:2021	en fr	Language resource management — Semantic annotation framework (SemAF) — Part 11: Measurable quantitative information (MQI)	D
TC 31		Tyres, rims and valves		TC 38		Textiles	
ISO 4000-1:2021	en fr	Passenger car tyres and rims — Part 1: Tyres (metric series)		ISO 22958:2021	en	Textiles — Water resistance — Rain tests: exposure to a horizontal water spray	B
ISO 10191:2021	en fr	Passenger car tyres — Verifying tyre capabilities — Laboratory test methods		ISO 30023:2021	en fr	Textiles — Qualification symbols for labelling workwear to be industrially laundered	B
ISO 18804:2021	en fr	Rims for agricultural, forestry and construction machines		ISO 2403:2021	en fr	Textiles — Cotton fibres — Determination of micronaire value	B
ISO 3739-2:2021	fr	Industrial tyres and rims — Part 2: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims — Load ratings		ISO 2313-1:2021	fr	Textiles — Determination of the recovery from creasing of a folded specimen of fabric by measuring the angle of recovery — Part 1: Method of the horizontally folded specimen	A
TC 34		Food products		ISO 2313-2:2021	fr	Textiles — Determination of the recovery from creasing of a folded specimen of fabric by measuring the angle of recovery — Part 2: Method of the vertically folded specimen	B
ISO/TR 23304:2021	fr	Food products — Guidance on how to express vitamins and their vitamins content					
ISO/TS 23758:2021	en	Guidelines for the validation of qualitative screening methods for the detection of residues of veterinary drugs in milk and milk products		TC 41		Pulleys and belts (including veebelts)	
ISO 13493:2021	en	Meat and meat products — Determination of chloramphenicol content — Reference method		ISO 9982:2021	en	Belt drives — Pulleys and V-ribbed belts for industrial applications — PH, PJ, PK, PL and PM profiles: dimensions	C
ISO 13496:2021	en	Meat and meat products — Detection and determination of colouring agents		TC 43		Acoustics	
ISO 6888-1:2021	en fr	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) — Part 1: Method using Baird-Parker agar medium		ISO 21388:2020	fr	Acoustics — Hearing aid fitting management (HAFM)	F
ISO 6888-2:2021	en fr	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) — Part 2: Method using rabbit plasma fibrinogen agar medium		ISO 21955:2021	en	Acoustics — Experimental method for transposition of dynamic forces generated by an active component from a test bench to a receiving structure	G
ISO 18363-4:2021	en fr	Animal and vegetable fats and oils — Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS — Part 4: Method using fast alkaline transesterification and measurement for 2-MCPD, 3-MCPD and glycidol by GC-MS/MS		TC 44		Welding and allied processes	
ISO 22753:2021	en	Molecular biomarker analysis — Method for the statistical evaluation of analytical results obtained in testing sub-sampled groups of genetically modified seeds and grains — General requirements		ISO 7289:2018	en	Gas welding equipment — Quick-action couplings with shut-off valves for welding, cutting and allied processes	B
TC 35		Paints and varnishes		TC 45		Rubber and rubber products	
				ISO 4647:2021	en fr	Rubber, vulcanized — Determination of static adhesion to textile cord — H-pull test	C
				ISO/TS 16095:2021	fr	Reclaimed rubber derived from products containing mainly natural rubber — Evaluation procedure	B
				ISO/TS 16096:2021	fr	Reclaimed isobutene-isoprene (IIR) rubber — Evaluation procedure	B

ISO 3011:2021	fr	Rubber- or plastics-coated fabrics — Determination of resistance to ozone cracking under static conditions	A	TC 85		Nuclear energy, nuclear technologies, and radiological protection	
ISO 5470-2:2021	en fr	Rubber- or plastics-coated fabrics — Determination of abrasion resistance — Part 2: Martindale abrader	B	ISO 2889:2021	en fr	Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities	H
ISO 22762-5:2021	en	Elastomeric seismic-protection isolators — Part 5: Sliding seismic-protection isolators for buildings	F	ISO 23468:2021	en	Reactor technology — Power reactor analyses and measurements — Determination of heavy water isotopic purity by Fourier transform infrared spectroscopy	D
ISO 23641:2021	en	Flexible cellular polymeric materials — Determination of antibacterial effectiveness	C	TC 86		Refrigeration and air-conditioning	
TC 46		Information and documentation		ISO 21922:2021	en fr	Refrigerating systems and heat pumps — Valves — Requirements, testing and marking	H
ISO 23081-2:2021	en	Information and documentation — Metadata for managing records — Part 2: Conceptual and implementation issues	E	TC 92		Fire safety	
TC 61		Plastics		ISO/TR 5729:2021	en	Evaluation of physical parameters of filter paper substrates for the determination of the ignition propensity of cigarettes	C
ISO 4892-2:2013/Amd 1:2021	en fr	Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps — Amendment 1: Classification of daylight filters	XZ	TC 94		Personal safety -- Personal protective equipment	
ISO 13000-1:2021	en fr	Plastics — Polytetrafluoroethylene (PTFE) semi-finished products — Part 1: Requirements and designation	B	ISO 16900-6:2021	en fr	Respiratory protective devices — Methods of test and test equipment — Part 6: Mechanical resistance/strength of components and connections	E
ISO 13000-2:2021	en fr	Plastics — Polytetrafluoroethylene (PTFE) semi-finished products — Part 2: Preparation of test specimens and determination of properties	B	TC 106		Dentistry	
TC 67		Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries		ISO 24234:2021	en fr	Dentistry — Dental amalgam	E
ISO/TS 3250:2021	en	Petroleum, petrochemical and natural gas industries — Calculation and reporting production efficiency in the operating phase	G	ISO 21563:2021	en fr	Dentistry — Hydrocolloid impression materials	F
ISO 15590-2:2021	en	Petroleum and natural gas industries — Factory bends, fittings and flanges for pipeline transportation systems — Part 2: Fittings	E	ISO 23445:2021	fr	Dentistry — Tissue punches	A
ISO 20257-2:2021	fr	Installation and equipment for liquefied natural gas — Design of floating LNG installations — Part 2: Specific FSRU issues	F	TC 108		Mechanical vibration, shock and condition monitoring	
TC 69		Applications of statistical methods		ISO 10819:2013/Amd 2:2021	en	Mechanical vibration and shock — Hand-arm vibration — Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand — Amendment 2	XZ
ISO 22514-7:2021	en fr	Statistical methods in process management — Capability and performance — Part 7: Capability of measurement processes	G	ISO 13091-1:2001/Amd 2:2021	fr	Mechanical vibration — Vibrotactile perception thresholds for the assessment of nerve dysfunction — Part 1: Methods of measurement at the fingertips — Amendment 2	XZ
TC 76		Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use		ISO 13091-2:2021	en fr	Mechanical vibration — Vibrotactile perception thresholds for the assessment of nerve dysfunction — Part 2: Analysis and interpretation of measurements at the fingertips	D
ISO 6717:2021	en fr	In vitro diagnostic medical devices — Single-use containers for the collection of specimens from humans other than blood	C	ISO 15230-1:2021	en fr	Mechanical vibration and shock — Coupling forces at the man-machine interface for hand-transmitted vibration — Part 1: Measurement and evaluation	D
TC 79		Light metals and their alloys					
ISO 7668:2021	en fr	Anodizing of aluminium and its alloys — Measurement of specular reflectance and specular gloss of anodic oxidation coatings at angles of 20°, 45°, 60° or 85°	B				

ISO 18436-1:2021	en fr	Condition monitoring and diagnostics of machine systems — Requirements for certification of personnel — Part 1: Sector specific requirements for certification bodies and the certification process	A	ISO/TS 10986:2021	en	Plastics piping systems — Glass-reinforced thermosetting plastics (GRP) pipes — System design of above ground pipe and joint installations without end thrust	F
TC 110		Industrial trucks		ISO/TS 23818-2:2021	en	Assessment of conformity of plastics piping systems for the rehabilitation of existing pipelines — Part 2: Resin-fibre composite (RFC) material	E
ISO 18063-2:2021	en fr	Rough-terrain trucks — Visibility test methods and their verification — Part 2: Slewing rough-terrain variable-reach trucks	D	TC 145		Graphical symbols	
TC 111		Round steel link chains, chain slings, components and accessories		ISO 7010:2019/ Amd 3:2021	fr	Graphical symbols — Safety colours and safety signs — Registered safety signs — Amendment 3	XZ
ISO 4779:2021	en	Chain components for lifting purposes — Forged eye hook with point and latch — Grade 4, stainless steel, solution annealed	C	TC 146		Air quality	
TC 114		Horology		ISO 12219-1:2021	en	Interior air of road vehicles — Part 1: Whole vehicle test chamber — Specification and method for the determination of volatile organic compounds in cabin interiors	E
IEC 60086-3:2021	en	Primary batteries — Part 3: Watch batteries	BN	ISO 16000-6:2021	en fr	Indoor air — Part 6: Determination of organic compounds (VOC, VOC, SVOC) in indoor and test chamber air by active sampling on sorbent tubes, thermal desorption and gas chromatography using MS or MS FID	F
TC 121		Anaesthetic and respiratory equipment		TC 147		Water quality	
ISO 21917:2021	en	Anaesthetic and respiratory equipment — Voice prostheses	B	ISO 21676:2018	fr	Water quality — Determination of the dissolved fraction of selected active pharmaceutical ingredients, transformation products and other organic substances in water and treated waste water — Method using high performance liquid chromatography and mass spectrometric detection (HPLC-MS/MS or -HRMS) after direct injection	E
ISO 10651-5:2006	fr	Lung ventilators for medical use — Particular requirements for basic safety and essential performance — Part 5: Gas-powered emergency resuscitators	F	TC 150		Implants for surgery	
ISO 80601-2-90:2021	en fr	Medical electrical equipment — Part 2-90: Particular requirements for basic safety and essential performance of respiratory high-flow therapy equipment	H	ISO 18193:2021	en	Cardiovascular implants and artificial organs — Cannulae for extracorporeal circulation	E
ISO 10079-4:2021	en	Medical suction equipment — Part 4: General requirements	E	TC 154		Processes, data elements and documents in commerce, industry and administration	
TC 126		Tobacco and tobacco products		ISO 14533-2:2021	en	Processes, data elements and documents in commerce, industry and administration — Long term signature — Part 2: Profiles for XML Advanced Electronic Signatures (XAeS)	D
ISO 16055:2021	fr	Tobacco and tobacco products — Monitor test piece for smoking machine — Requirements and use	B	TC 155		Nickel and nickel alloys	
ISO 16632:2021	en fr	Tobacco and tobacco products — Determination of water content — Gas-chromatographic method	B	ISO/TR 4644:2021	en	Nickels, ferronickels and nickel alloys — Standards for the determination of chemical composition	D
TC 127		Earth-moving machinery		TC 156		Corrosion of metals and alloys	
ISO 10261:2021	en fr	Earth-moving machinery — Product identification numbering system	B	ISO 7539-9:2021	en fr	Corrosion of metals and alloys — Stress corrosion testing — Part 9: Preparation and use of pre-cracked specimens for tests under rising load or rising displacement	E
TC 130		Graphic technology		TC 160		Glass in building	
ISO 14298:2021	en	Graphic technology — Management of security printing processes	D	ISO/TS 21480:2021	en	Glass in building — General technical requirements of building integrated photovoltaic modules recycling	C
TC 138		Plastics pipes, fittings and valves for the transport of fluids		TC 171		Document management applications	

ISO 16684-3:2021	en	Graphic technology — Extensible metadata platform (XMP) specification — Part 3: JSON-LD serialization of XMP	C	ISO 11855-1:2021	en fr	Building environment design — Embedded radiant heating and cooling systems — Part 1: Definitions, symbols, and comfort criteria	E
TC 173		Assistive products		ISO 11855-3:2021	en fr	Building environment design — Embedded radiant heating and cooling systems — Part 3: Design and dimensioning	D
ISO/TR 20342-7:2021	en	Assistive products for tissue integrity when lying down — Part 7: Foam properties, characteristics and performance	B	ISO 11855-4:2021	en fr	Building environment design — Embedded radiant heating and cooling systems — Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS)	G
TC 176		Quality management and quality assurance		ISO 11855-5:2021	en fr	Building environment design — Embedded radiant heating and cooling systems — Part 5: Installation	B
ISO 10014:2021	es	Quality management systems — Managing an organization for quality results — Guidance for realizing financial and economic benefits	D	TC 206		Fine ceramics	
TC 180		Solar energy		ISO 23737:2021	en	Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for evaluating wear and friction characteristics of fine ceramic thin films under dry and humid conditions	E
ISO/TR 9901:2021	en	Solar energy — Pyranometers — Recommended practice for use	F	ISO 23739:2021	en	Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for chemical analysis of zirconium oxide powders	C
TC 182		Geotechnics		TC 213		Dimensional and geometrical product specifications and verification	
ISO 17892-12:2018/Amd 1:2021	en	Geotechnical investigation and testing — Laboratory testing of soil — Part 12: Determination of liquid and plastic limits — Amendment 1	XZ	ISO 10360-10:2021	en fr	Geometrical product specifications (GPS) — Acceptance and reverification tests for coordinate measuring systems (CMS) — Part 10: Laser trackers	F
ISO 22476-4:2021	en	Geotechnical investigation and testing — Field testing — Part 4: Prebored pressuremeter test by Ménard procedure	G	TC 217		Cosmetics	
TC 189		Ceramic tile		ISO 21392:2021	en fr	Cosmetics — Analytical methods — Measurement of traces of heavy metals in cosmetic finished products using ICP/MS technique	E
ISO 17721-1:2021	en fr	Quantitative determination of antibacterial activity of ceramic tile surfaces — Test methods — Part 1: Ceramic tile surfaces with incorporated antibacterial agents	B	ISO/TR 23750:2021	en fr	Cosmetics — Answers to frequently asked questions on ingredients and product characterization according to ISO 16128-1 and ISO 16128-2	C
ISO 17721-2:2021	en fr	Quantitative determination of antibacterial activity of ceramic tile surfaces — Test methods — Part 2: Ceramic tile surfaces with incorporated photocatalytic antibacterial agents	B	TC 228		Tourism and related services	
TC 197		Hydrogen technologies		ISO 18513:2021	en fr	Tourism services — Hotels and other types of tourism accommodation — Vocabulary	A
ISO 19880-8:2019/Amd 1:2021	en	Gaseous hydrogen — Fuelling stations — Part 8: Fuel quality control — Amendment 1: Alignment with Grade D of ISO 14687	XZ	ISO 22876:2021	en fr	Tourism and related services — Bareboat charter — Supplementary charter services and experiences	B
TC 198		Sterilization of health care products		TC 229		Nanotechnologies	
ISO 11138-8:2021	fr	Sterilization of health care products — Biological indicators — Part 8: Method for validation of a reduced incubation time for a biological indicator	B	ISO/TS 21633:2021	en	Label-free impedance technology to assess the toxicity of nanomaterials in vitro	D
TC 204		Intelligent transport systems		ISO/TS 23034:2021	en	Nanotechnologies — Method to estimate cellular uptake of carbon nanomaterials using optical absorption	D
ISO/TR 4286:2021	en	Intelligent transport systems — Use cases for sharing of probe data	D	TC 232		Education and learning services	
ISO 4426:2021	en	Intelligent transport systems — Lower layer protocols for usage in the European digital tachograph	G	ISO 29995:2021	fr	Education and learning services — Vocabulary	A
ISO/TS 17573-3:2021	en	Electronic fee collection — System architecture for vehicle-related tolling — Part 3: Data dictionary	F				
TC 205		Building environment design					

TC 249		Traditional Chinese medicine			ISO 22940:2021	en fr	Solid recovered fuels — Determination of elemental composition by X-ray fluorescence	F
ISO 23723:2021	en	Traditional Chinese medicine — General requirements for herbal raw material and materia medica	H					
ISO 23959:2021	en	Traditional Chinese medicine — <i>Glehnia littoralis</i> root	C	TC 301			Energy management and energy savings	
				ISO 50004:2020	es		Energy management systems — Guidance for the implementation, maintenance and improvement of an ISO 50001 energy management system	F
TC 256		Pigments, dyestuffs and extenders						
ISO 787-2:2021	en fr	General methods of test for pigments and extenders — Part 2: Determination of matter volatile at 105 °C	A	TC 306			Foundry machinery	
ISO 1247-1:2021	en	Aluminium pigments for paints — Part 1: General aluminium pigments	D	ISO 23472-3:2021	en		Foundry machinery — Vocabulary — Part 3: Die casting machines and other equipment related to permanent mold casting process	A
ISO 1247-2:2021	en	Aluminium pigments for paints — Part 2: Vacuum metallized aluminium pigments	A	TC 309			Governance of organizations	
				ISO 37301:2021	fr		Compliance management systems — Requirements with guidance for use	F
TC 268		Sustainable cities and communities						
ISO 37169:2021	en	Smart community infrastructures — Smart transportation by run-through train/bus operation in/between cities	C	TC 322			Sustainable finance	
ISO 37180:2021	en	Smart community infrastructures — Guidance on smart transportation with QR code identification and authentication in transportation and its related or additional services	B	ISO/TR 32220:2021	en fr		Sustainable finance — Basic concepts and key initiatives	E
TC 269		Railway applications						
ISO 22074-7:2021	en fr	Railway infrastructure — Rail fastening systems — Part 7: Test method for clamping force and uplift stiffness	B	TMBG			Technical Management Board - groups	
ISO 23300-1:2021	en	Railway infrastructure — Rail welding — Part 1: General requirements and test methods for rail welding	F	IWA 34:2021	es		Women's entrepreneurship — Key definitions and general criteria	C
TC 276		Biotechnology						
ISO 23033:2021	en fr	Biotechnology — Analytical methods — General requirements and considerations for the testing and characterization of cellular therapeutic products	E	JTC 1			Information technology	
TC 279		Innovation management		ISO/IEC 5962:2021	en		Information technology — SPDX® Specification V2.2.1	H
ISO/TR 56004:2019	es	Innovation Management Assessment — Guidance	E	ISO/IEC 5965:2021	en		Information technology — Swordfish Scalable Storage Management API Specification	H
TC 292		Security and resilience		ISO/IEC 7816-8:2021	en		Identification cards — Integrated circuit cards — Part 8: Commands and mechanisms for security operations	E
ISO/TS 22393:2021	en	Security and resilience — Community resilience — Guidelines for planning recovery and renewal	F	ISO/IEC TR 30117:2021	en		Information technology — Standards and applications for the integration of biometrics and integrated circuit cards (ICCs)	D
TC 299		Robotics		ISO/IEC 29142-1:2021	en		Information technology — Print cartridge characterization — Part 1: General: terms, symbols, notations and cartridge characterization framework	E
ISO 18646-4:2021	en	Robotics — Performance criteria and related test methods for service robots — Part 4: Lower-back support robots	E	ISO/IEC 21794-2:2021/ Amd 1:2021	en		Information technology — Plenoptic image coding system (JPEG Pleno) — Part 2: Light field coding — Amendment 1: Profiles and levels for JPEG Pleno light field coding system	XZ
TC 300		Solid recovered materials, including solid recovered fuels		ISO/IEC 20830:2021	en		Information technology — Automatic identification and data capture techniques — Han Xin Code bar code symbology specification	H
				ISO/IEC 19075-1:2021	en		Information technology — Guidance for the use of database language SQL — Part 1: XQuery regular expressions	D

ISO/IEC 21838-1:2021	en	Information technology — Top-level ontologies (TLO) — Part 1: Requirements	D	ISO 6686:1995 (reconfirmed)	
				ISO 8169:1984 (reconfirmed)	
				ISO 9357:1990 (reconfirmed)	
ISO/IEC 29500-2:2021	en	Document description and processing languages — Office Open XML file formats — Part 2: Open packaging conventions	G	ISO 9898:2000 (reconfirmed)	
				ISO/TS 11356:2011 (reconfirmed)	
ISO/IEC 9995-9:2016/Amd 1:2019	en	Information technology — Keyboard layouts for text and office systems — Part 9: Multi-lingual, multiscript keyboard layouts — Amendment 1	XZ	ISO 13441-1:1997 (reconfirmed)	
				ISO 13441-2:1997 (reconfirmed)	
ISO/IEC 30134-6:2021	en fr	Information technology — Data centres key performance indicators — Part 6: Energy Reuse Factor (ERF)	C	ISO 19732:2007 (reconfirmed)	
				TC 27	Coal and coke
				ISO 157:1996 (reconfirmed)	
				ISO 562:2010 (reconfirmed)	
				ISO 609:1996 (reconfirmed)	
ISO/IEC TS 20000-11:2021	en	Information technology — Service management — Part 11: Guidance on the relationship between ISO/IEC 20000-1 and service management frameworks: ITIL®	G	TC 29	Small tools
				ISO 8486-1:1996 (reconfirmed)	
				ISO 8486-2:2007 (reconfirmed)	
ISO/IEC 30147:2021	en	Information technology — Internet of things — Methodology for trustworthiness of IoT system/service	E	ISO 8018:2007 (reconfirmed)	
				ISO 8695:2010 (reconfirmed)	
				ISO 9181:2007 (reconfirmed)	
				ISO 11900-1:2007 (reconfirmed)	
				ISO 11901-1:2003 (reconfirmed)	
				ISO 16916:2016	
				TC 38	Textiles
				ISO 105-F06:2000 (reconfirmed)	
				ISO 105-X18:2007 (reconfirmed)	
				TC 39	Machine tools
				ISO 230-5:2000 (reconfirmed)	
				TC 41	Pulleys and belts (including veebelts)
				ISO 10247:1990 (reconfirmed)	
				TC 60	Gears
				ISO/TR 10064-5:2005 (reconfirmed)	
				ISO 17485:2006 (reconfirmed)	
				ISO 18653:2003 (reconfirmed)	
				TC 72	Textile machinery and accessories
				ISO 96-2:2009 (reconfirmed)	
				ISO 3914-1:1994 (reconfirmed)	
				ISO 3914-2:1994 (reconfirmed)	
				ISO 3914-3:1994 (reconfirmed)	
				ISO 3914-7:1994 (reconfirmed)	
				ISO 4105:1978 (reconfirmed)	
				TC 79	Light metals and their alloys
				ISO 25902-1:2009 (reconfirmed)	
				ISO 25902-2:2010 (reconfirmed)	
				TC 85	Nuclear energy, nuclear technologies, and radiological protection
				ISO 21847-1:2007 (reconfirmed)	
				ISO 21847-2:2007 (reconfirmed)	
				ISO 21847-3:2007 (reconfirmed)	
				TC 94	Personal safety -- Personal protective equipment
				ISO 16900-8:2015	
				ISO 16900-9:2015	
				ISO 16900-10:2015	
				ISO 16900-13:2015	

## Standards confirmed

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

TC 17	Steel
ISO 4829-2:2016	
ISO 4938:2016	
ISO 4939:2016	
ISO 4946:2016	
TC 20	Aircraft and space vehicles
ISO 2635:2003	(reconfirmed)
ISO 27027:2014	
ISO 2533:1975	(reconfirmed)
TC 23	Tractors and machinery for agriculture and forestry
ISO 3835-3:1980	(reconfirmed)
ISO 4002-1:1979	(reconfirmed)
ISO 5690-1:1985	(reconfirmed)
ISO 5690-2:1984	(reconfirmed)
ISO 5699:1979	(reconfirmed)
ISO 5703:1979	(reconfirmed)
ISO 5704:1980	(reconfirmed)
ISO 5710:1980	(reconfirmed)
ISO 6690:2007	(reconfirmed)
ISO 7256-1:1984	(reconfirmed)
ISO 7256-2:1984	(reconfirmed)
ISO 8016:1985	(reconfirmed)
ISO 17989-1:2015	
ISO 4102:1984	(reconfirmed)

TC 39	Machine tools
ISO 230-5:2000	(reconfirmed)
TC 41	Pulleys and belts (including veebelts)
ISO 10247:1990	(reconfirmed)
TC 60	Gears
ISO/TR 10064-5:2005	(reconfirmed)
ISO 17485:2006	(reconfirmed)
ISO 18653:2003	(reconfirmed)
TC 72	Textile machinery and accessories
ISO 96-2:2009	(reconfirmed)
ISO 3914-1:1994	(reconfirmed)
ISO 3914-2:1994	(reconfirmed)
ISO 3914-3:1994	(reconfirmed)
ISO 3914-7:1994	(reconfirmed)
ISO 4105:1978	(reconfirmed)
TC 79	Light metals and their alloys
ISO 25902-1:2009	(reconfirmed)
ISO 25902-2:2010	(reconfirmed)
TC 85	Nuclear energy, nuclear technologies, and radiological protection
ISO 21847-1:2007	(reconfirmed)
ISO 21847-2:2007	(reconfirmed)
ISO 21847-3:2007	(reconfirmed)
TC 94	Personal safety -- Personal protective equipment
ISO 16900-8:2015	
ISO 16900-9:2015	
ISO 16900-10:2015	
ISO 16900-13:2015	

TC 113	Hydrometry
ISO 24155:2016	
TC 131	Fluid power systems
ISO 3601-3:2005	(reconfirmed)
TC 147	Water quality
ISO 9377-2:2000	(reconfirmed)
ISO 10695:2000	(reconfirmed)
ISO 11349:2010	(reconfirmed)
ISO 15089:2000	(reconfirmed)
ISO 15682:2000	(reconfirmed)
ISO 15913:2000	(reconfirmed)
ISO/TS 19620:2018	
ISO/TS 20612:2007	(reconfirmed)
ISO 6461-1:1986	(reconfirmed)
ISO 7899-1:1998	(reconfirmed)
ISO 7899-2:2000	(reconfirmed)
ISO 9308-3:1998	(reconfirmed)
ISO 10705-2:2000	(reconfirmed)
ISO 19250:2010	(reconfirmed)
ISO 7346-1:1996	(reconfirmed)
ISO 7346-2:1996	(reconfirmed)
ISO 7827:2010	(reconfirmed)
ISO 19493:2007	(reconfirmed)
ISO 19820:2016	
ISO 19827:2016	
ISO 21338:2010	(reconfirmed)
TC 159	Ergonomics
ISO 9241-392:2015	
ISO 9241-400:2007	(reconfirmed)
ISO 9355-1:1999	(reconfirmed)
ISO 9355-2:1999	(reconfirmed)
ISO 9355-3:2006	(reconfirmed)
TC 172	Optics and photonics
ISO 21254-2:2011	(reconfirmed)
TC 174	Jewellery and precious metals
ISO 8653:2016	
TC 190	Soil quality
ISO 11261:1995	(reconfirmed)
ISO 15178:2000	(reconfirmed)
ISO 17586:2016	
ISO 20280:2007	(reconfirmed)
TC 197	Hydrogen technologies
ISO 13984:1999	(reconfirmed)
ISO 13985:2006	(reconfirmed)
TC 198	Sterilization of health care products
ISO/TS 19930:2017	
TC 201	Surface chemical analysis
ISO 22048:2004	(reconfirmed)
TC 209	Cleanrooms and associated controlled environments
ISO 14644-1:2015	
ISO 14644-2:2015	

TC 218	Timber
ISO 2300:1973	(reconfirmed)
TC 221	Geosynthetics
ISO 12236:2006	(reconfirmed)
ISO 13431:1999	(reconfirmed)
ISO 13433:2006	(reconfirmed)
TC 263	Coalbed methane (CBM)
ISO 18871:2015	
ISO 18875:2015	
JTC 1	Information technology
ISO/IEC 9973:2013	
ISO/IEC 15948:2004	(reconfirmed)
ISO/IEC 18025:2014	
ISO/IEC 18026:2009	(reconfirmed)
ISO/IEC 19775-2:2015	
ISO/IEC 19776-1:2015	

## Standards withdrawn

Period from 01 August to 01 September 2021

TC 22	Road vehicles
ISO 22902-1:2006	(replaced by)
ISO 22902-2:2006	(replaced by)
ISO 22902-3:2006	(replaced by)
ISO 22902-4:2006	(replaced by)
ISO 22902-5:2006	(replaced by)
ISO 22902-6:2006	(replaced by)
ISO 22902-7:2006	(replaced by)
ISO 21848:2005	(replaced by)
TC 46	Information and documentation
ISO 10754:1996	(replaced by)
ISO 21047:2009	(replaced by)
TC 108	Mechanical vibration, shock and condition monitoring
ISO 15230:2007	(replaced by ISO 15230-1:2021)
TC 173	Assistive products
ISO 9949-3:1993	(replaced by)
TC 190	Soil quality
ISO 14235:1998	(replaced by)
TC 256	Pigments, dyestuffs and extenders
ISO 1247:1974	(replaced by ISO 1247-1:2021, ISO 1247-2:2021)
ISO 1247:1974/ Amd 1:1982	(replaced by ISO 1247-2:2021, ISO 1247-1:2021)
JTC 1	Information technology
ISO/IEC TS 19571:2016	(replaced by)

ISO/IEC TR 19075-1:2011 (replaced by ISO/IEC 19075-1:2021)  
ISO/IEC TR 20000-11:2015 (replaced by ISO/IEC TS 20000-11:2021)  
ISO/IEC TR 22446:2017 (replaced by )

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## Meeting calendar

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The meeting calendar is available at  
<https://www.iso.org/meeting-calendar.html>





