

MTA Standards Update Booklet

The Manufacturing Technologies Association



Introduction

Standards are an agreed way of doing something. They are documents which contain technical specifications or other precise criteria, which are designed to be used consistently as a rule, guideline or definition. Consequently, standards ensure the quality and consistency of products and services and allow consumers to have confidence that their products are safe, reliable and of a good quality.

This booklet looks to provide the following information in relation to standards and the MTA's engagement with them:

- An overview of the standards update process.
- A summary of the BSI standard committees that the MTA is engaged with,
- A list of the standards that are being updated under each committee.

Please be aware this is the December 2021 updated booklet and the next update would be sent in March 2022.

If you are interested in participating in any of the committees listed in the booklet, would like to find out any information about any of the standards being updated, or have a suggestion on a technical area we should look to cover in a committee coverage please get in touch the MTA Technical team (contact details on final page).

Furthermore, all full members of the MTA are entitled to have access to the MTA BSI standards collection. This access allows MTA members to view a number of standards, as chosen by industry, at no cost. To access this collection please register on the BSI website (bsol.bsigroup.com) and get in touch for your access code (contact details on final page).



Standards Update Process

A new standard or one being updated goes through the same process which is represented in Figure 1:



Figure 1 – Standards Update Process

These update steps are as follows:

- New Work Proposal or Revision – at this stage a BSI committee will vote on whether to approve a project and submit comments. If appropriate experts will be nominated.
- Preparation (Drafting) – The standard will be drafted with the appointed expert providing specialist knowledge to the working group.
- Committee stage – The BSI committee have an opportunity to comment on the draft.
- Public Consultation – If the draft is approved by the committee the draft is sent out for 2 to 3 months for public comment (stage 40.20 on figure 2).
- Comment resolution – At the end of the consultation period all comments collated with the BSI committee deciding which to put forward in response.
- Approval stage – Once the consultation comments have been resolved the draft moves to approval stage where only editorial comments can be made.
- Publication – Following formal approval a standard will be implemented as a British Standard, with any conflicting standards being withdrawn.
- Review – To ensure a standard is required, it is periodically reviewed. The review considers if the standard should be retained, amended, withdrawn or revised.

Figure 2, on the next page, shows the in-depth stages of the standards update process. This can be used to understand which stage a standard is at the update process.

International harmonized stage codes

STAGE	SUBSTAGE						
				90 Decision			
	00 Registration	20 Start of main action	60 Completion of main action	92 Repeat an earlier phase	93 Repeat current phase	98 Abandon	99 Proceed
00 Preliminary stage	00.00 Proposal for new project received	00.20 Proposal for new project under review	00.60 Close of review			00.98 Proposal for new project abandoned	00.99 Approval to ballot proposal for new project
10 Proposal stage	10.00 Proposal for new project registered	10.20 New project ballot initiated	10.60 Close of voting	10.92 Proposal returned to submitter for further definition		10.98 New project rejected	10.99 Approval to New project approved
20 Preparatory stage	20.00 New project registered in TC/SC work programme	20.20 Working draft (WD) study initiated	20.60 Close of comment period			20.98 Project deleted	20.99 WD approved for registration as CD
30 Committee stage	30.00 Committee draft (CD) registered	30.20 CD study/ballot initiated	30.60 Close of voting/ comment period	30.92 CD referred back to Working Group		30.98 Project deleted	30.99 CD approved for registration as DIS
40 Enquiry stage	40.00 DIS registered	40.20 DIS ballot initiated: 12 weeks	40.60 Close of voting	40.92 Full report circulated: DIS referred back to TC or SC	40.93 Full report circulated: decision for new DIS ballot	40.98 Project deleted	40.99 Full report circulated: DIS approved for registration as FDIS
50 Approval stage	50.00 Final text received or FDIS registered for formal approval	50.20 Proof sent to secretariat or FDIS ballot initiated: 8 weeks	50.60 Close of voting. Proof returned by secretariat	50.92 FDIS or proof referred back to TC or SC		50.98 Project deleted	50.99 FDIS or proof approved for publication
60 Publication stage	60.00 International Standard under publication		60.60 International Standard published				
90 Review stage		90.20 International Standard under periodical review	90.60 Close of review	90.92 International Standard to be revised	90.93 International Standard confirmed		90.99 Withdrawal of International Standard proposed by TC or SC
95 Withdrawal stage		95.20 Withdrawal ballot initiated	95.60 Close of voting	95.92 Decision not to withdraw International Standard			95.99 Withdrawal of International Standard

Figure 2 – In-depth overview of standards update process

Committees and Standards Under Review

The following tables provide a list of the standards committees the MTA participates in, as well as the standards being updated under each of those committees.

AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/DIS 8000-1	Data quality — Part 1: Overview	40.99
ISO/CD 8000-51	Data quality — Part 51: Data governance: Exchange of data policy statements	30.99
ISO/DIS 8000-64	Data quality — Part 64: Data quality management: Organizational process maturity assessment: Application of the Test Process Improvement method	40.99
ISO/DTS 8000-82	Data quality — Part 82: Data quality assessment: Creating data rules	30.99
ISO/CD 8000-117	Data quality — Part 117: Application of ISO 8000-115 to Quality Blockchains	30.99
ISO/DIS 8000-150	Data quality — Part 150: Data quality management: Roles and responsibilities	40.20
ISO/AWI PAS 8329	xMCF — A Description and Data Standard for Connection and Joining Data in the Automotive Industry	10.99
ISO/AWI 10303-1	Industrial automation systems and integration — Product data representation and exchange — Part 1: Overview and fundamental principles	20.00
ISO/AWI 10303-2	Industrial automation systems and integration — Product data representation and exchange — Part 2: STEP Vocabulary	20.00
ISO/DTS 10303-17	Industrial automation systems and integration — Product data representation and exchange — Part 17: EXPRESS to SysML CXMI transformation	30.99
ISO/WD 10303-209	Industrial automation systems and integration — Product data representation and exchange — Part 209: Application protocol: Multidisciplinary analysis and design	20.20
ISO/CD 10303-239	Industrial automation systems and integration — Product data representation and exchange — Part 239: Application protocol: Product life cycle support (PLCS)	30.99
ISO 10303-243	Industrial automation systems and integration — Product data representation and exchange — Part 243: Application protocol: For modelling and simulation information in a collaborative systems engineering context (MoSSEC)	60.00

AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/AWI TS 10303-400	Industrial automation systems and integration — Product data representation and exchange — Part 400: Reference ARM for SysML mapping	10.99
ISO/AWI TS 10303-1847	Industrial automation systems and integration — Product data representation and exchange — Part 1847: Application module: Assignment object relationship	10.99
ISO/AWI TS 10303-1848	Industrial automation systems and integration - Product data representation and exchange — Part 1848: Application module: Annotated 3d model data quality criteria	10.99
ISO/AWI TS 10303-1849	Industrial automation systems and integration - Product data representation and exchange — Part 1849: Application module: Annotated 3d model data quality inspection result	10.99
ISO/AWI TS 10303-1850	Industrial automation systems and integration - Product data representation and exchange — Part 1850: Application module: Triangulated shape data quality	10.99
ISO/AWI TS 10303-1851	Industrial automation systems and integration - Product data representation and exchange — Part 1851: Application module: PMI data quality	10.99
ISO/AWI TS 10303-1852	Industrial automation systems and integration - Product data representation and exchange — Part 1852: Application module: Retention period	10.99
ISO/AWI TS 10303-1853	Industrial automation systems and integration — Product data representation and exchange — Part 1853: Datum and datum systems	10.99
ISO/PRF TS 10303-4000	Industrial automation systems and integration — Product data representation and exchange — Part 4000: Core model	50.20
ISO/CD TS 10303-4439	Industrial automation systems and integration — Product data representation and exchange — Part 4439: Domain model: Product life cycle support	30.00
ISO/CD TS 10303-4443	Industrial automation systems and integration — Product data representation and exchange — Part 4443: Domain model: For modelling and simulation information in a collaborative systems engineering context (MoSSEC)	30.00
ISO/AWI TS 15926-4	Industrial automation systems and integration — Integration of life-cycle data for process plants including oil and gas production facilities — Part 4: Initial reference data	10.99

AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/WD TS 15926-11	Industrial automation systems and integration — Integration of life-cycle data for process plants including oil and gas production facilities — Part 11: Methodology for simplified industrial usage of reference data	20.00
ISO/CD TR 15926-14	Industrial automation systems and integration — Integration of life-cycle data for process plants including oil and gas production facilities — Part 14: Data model adapted for OWL2 Direct Semantics	30.99
ISO/FDIS 17506	Industrial automation systems and integration — COLLADA digital asset schema specification for 3D visualization of industrial data	50.00
ISO/PRF TS 23301	STEP geometry visualization services	50.20
ISO/CD 29002	Industrial automation systems and integration — Exchange of characteristic data	30.99

AMT/008 ADDITIVE MANUFACTURING		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/ASTM DIS 52902	Additive manufacturing — Test artifacts — Geometric capability assessment of additive manufacturing systems	40.00
ISO/ASTM CD 52903-2	Additive manufacturing — Material extrusion-based additive manufacturing of plastic materials — Part 2: Process equipment	30.99
ISO/ASTM CD 52904	Additive manufacturing of metals — Process characteristics and performance — Metal powder bed fusion process to meet critical applications	30.99
ISO/ASTM DTR 52905	Additive manufacturing of metals — Non-destructive testing and evaluation — Defect detection in parts	30.99
ISO/ASTM PRF TR 52906	Additive manufacturing — Non-destructive testing — Intentionally seeding flaws in metallic parts	50.00
ISO/ASTM DIS 52908	Additive manufacturing of metals — Finished Part properties — Post-processing, inspection and testing of parts produced by powder bed fusion	40.00
ISO/ASTM DIS 52909	Additive manufacturing — Finished part properties — Orientation and location dependence of mechanical properties for metal powder bed fusion	40.00
ISO/ASTM CD 52910	Additive manufacturing — Design — Requirements, guidelines and recommendations	30.99

AMT/008 ADDITIVE MANUFACTURING		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/ASTM DIS 52911-3	Additive Manufacturing — Design — Part 3: Electron beam powder bed fusion of metals	40.00
ISO/ASTM DTR 52913-1	Additive manufacturing — Feedstock materials — Part 1: Parameters for characterization of powder flow properties	30.92
ISO/ASTM PRF TR 52916	Additive manufacturing for medical — Data — Optimized medical image data	50.20
ISO/ASTM DTR 52917	Additive manufacturing — Round Robin Testing — General Guidelines	30.99
ISO/ASTM CD TR 52918	Additive manufacturing — Data formats — File format support, ecosystem and evolutions	30.00
ISO/ASTM DIS 52920	Additive manufacturing — Qualification principles — Requirements for industrial additive manufacturing sites	40.99
ISO/ASTM DIS 52921	Additive manufacturing — General principles — Part positioning, coordinates and orientation	40.99
ISO/ASTM DIS 52924	Additive manufacturing of polymers — Feedstock materials — Qualification of materials for laser-based powder bed fusion of parts	40.99
ISO/ASTM FDIS 52925	Additive manufacturing of polymers — Qualification principles — Classification of part properties	50.00
ISO/ASTM CD 52926-1	Additive manufacturing of metals — Qualification principles — Part 1: General qualification of machine operators	30.99
ISO/ASTM CD 52926-2	Additive manufacturing of metals — Qualification principles — Part 2: Qualification of machine operators for PBF-LB	30.99
ISO/ASTM CD 52926-3	Additive manufacturing of metals — Qualification principles — Part 3: Qualification of machine operators for PBF-EB	30.99
ISO/ASTM CD 52926-4	Additive manufacturing of metals — Qualification principles — Part 4: Qualification of machine operators for DED-LB	30.99
ISO/ASTM CD 52926-5	Additive manufacturing of metals — Qualification principles — Part 5: Qualification of machine operators for DED-Arc	30.99
ISO/ASTM CD 52927	Additive manufacturing — General principles — Main characteristics and corresponding test methods	30.99
ISO/ASTM CD 52928	Additive manufacturing — Feedstock materials — Powder life cycle management	30.99
ISO/ASTM DIS 52931	Additive manufacturing of metals — Environment, health and safety — General principles for use of metallic materials	40.20
ISO/ASTM AWI 52933	Additive manufacturing — Environment, health and safety — Consideration for the reduction of hazardous substances emitted during the operation of the non-industrial ME type 3D printer in workplaces, and corresponding test method	20.00
ISO/ASTM CD 52935	Additive manufacturing of metals — Qualification principles — Qualification of coordinators for metallic parts production	30.99

AMT/008 ADDITIVE MANUFACTURING		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/ASTM DIS 52936-1	Additive manufacturing of polymers — Powder bed fusion — Part 1: General principles and preparation of test specimens for PBF-LB	40.99
ISO/ASTM AWI 52937	Additive Manufacturing of metals — Qualification principles — Qualification of designers	20.00
ISO/ASTM AWI 52938-1	Additive manufacturing of metals — Environment, health and safety — Part 1: Safety requirements for PBF-LB machines	20.00
ISO/ASTM CD 52939	Additive Manufacturing for construction — Qualification principles — Structural and infrastructure elements	30.99
ISO/ASTM AWI 52943-2	Additive manufacturing for aerospace — Process characteristics and performance — Part 2: Directed energy deposition using wire and arc	20.00
ISO/ASTM AWI 52945	Additive manufacturing for Automotive — Qualification principles — Generic machine evaluation and specification of Key Performance Indicators for PBF-LB/M processes	20.00
ISO/ASTM DTR 52952	Additive Manufacturing of metals — Feedstock materials — Correlating of rotating drum measurement with powder spreadability in PBF-LB machines	30.99

AMT/10 ROBOTICS		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/WD 5363	Robotics — Test methods for Walking RACA Robot	20.20
ISO/AWI PAS 5672	Robotics — Collaborative applications — Test methods for measuring forces and pressures in quasi-static and transient contacts between robots and human	20.00
ISO/DIS 10218-1.2	Robotics — Safety requirements — Part 1: Industrial robots	40.60
ISO/FDIS 10218-2	Robotics — Safety requirements — Part 2: Industrial robot systems, robot applications and robot cells	50.00
ISO/FDIS 11593	Robots for industrial environments — Automatic end effector exchange systems — Vocabulary	50.20
ISO/AWI 13482	Robotics — Safety requirements for service robots	20.00
ISO/CD 18646-2	Robotics — Performance criteria and related test methods for service robots — Part 2: Navigation	30.20
ISO/CD 22166-201	Robotics — Modularity for service robots — Part 201: Common information model for modules	30.20
ISO/CD 31101	Robotics — Services provided by service robots — Safety management systems requirements	40.20

AMT/10 ROBOTICS		
STANDARDS UNDERDEVELOPMENT		STAGE
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	40.20
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	40.20

IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/IEC CD 4922-1.2	Information security — Secure multiparty computation — Part 1: General	30.60
ISO/IEC WD 4922-2.3	Information security — Secure multiparty computation — Part 2: Mechanisms based on secret sharing	20.20
ISO/IEC WD 4983	Information technology — Security techniques — Secure deployment, updating, and upgrading	20.60
ISO/IEC DTR 5891	A general framework for runtime hardware security assessment	30.99
ISO/IEC DTR 5895	Multi-party coordinated vulnerability disclosure and handling	30.60
ISO/IEC WD TR 6114.2	Information technology – Security techniques – Security assurance throughout the product life cycle	20.20
ISO/IEC AWI TR 6890	Towards creating an extension for patch management for ISO/IEC 15408 and ISO/IEC 18045	20.00
ISO/IEC 9797-1:2011/WD AMD 1.2	Information technology — Security techniques — Message Authentication Codes (MACs) — Part 1: Mechanisms using a block cipher — Amendment 1: Information technology — Security techniques — Message authentication codes (MACs) — Part 1: Mechanisms using a block cipher — Amendment 1	20.60
ISO/IEC WD 14888-4	Information technology — Security techniques — Digital signatures with appendix — Part 4: Stateful hash-based mechanisms	20.60
ISO/IEC DIS 15408-1	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 1: Introduction and general model	40.99
ISO/IEC DIS 15408-2	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 2: Security functional components	40.99

IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/IEC DIS 15408-3	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 3: Security assurance components	40.99
ISO/IEC DIS 15408-4	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 4: Framework for the specification of evaluation methods and activities	40.99
ISO/IEC DIS 15408-5	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 5: Pre-defined packages of security requirements	40.99
ISO/IEC DIS 18045	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Methodology for IT security evaluation	40.99
ISO/IEC WD 19790	Information technology — Security techniques — Security requirements for cryptographic modules	20.60
ISO/IEC 20008-2:2013/CD AMD 2	Information technology — Security techniques — Anonymous digital signatures — Part 2: Mechanisms using a group public key — Amendment 2	30.60
ISO/IEC AWI 20008-3	Information technology — Security techniques — Anonymous digital signatures — Part 3: Mechanisms using multiple public keys	20.00
ISO/IEC DTR 22216.2	Information security, cybersecurity and privacy protection — New concepts and changes in ISO/IEC 15408:2021 and ISO/IEC 18045:2021	30.99
ISO/IEC CD 23264-2.2	Information security — Redaction of authentic data — Part 2: Redactable signature schemes based on asymmetric mechanisms	30.60
ISO/IEC CD 23837-1.2	Information technology security techniques — Security requirements, test and evaluation methods for quantum key distribution — Part 1: Requirements	30.60
ISO/IEC CD 23837-2.2	Information technology security techniques — Security requirements, test and evaluation methods for quantum key distribution — Part 2: Evaluation and testing methods	30.60
ISO/IEC CD 24392	Information technology — Security techniques — Security reference model for Industrial Internet Platform (IIP)	30.60
ISO/IEC AWI TS 24462	Ontology for ICT Trustworthiness Assessment	20.00
ISO/IEC DTR 24485.4	Information technology — Security techniques — Security properties, test and evaluation guidance for white box cryptography	30.60
ISO/IEC 27001:2013/CD AMD 1	Information technology — Security techniques — Information security management systems — Requirements — Amendment 1	30.99

IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/IEC FDIS 27002	Information security, cybersecurity and privacy protection — Information security controls	50.20
ISO/IEC DIS 27005	Information security, cybersecurity and privacy protection — Guidance on managing information security risks	40.20
ISO/IEC CD 27011	Information security, cybersecurity and privacy protection — Information security controls based on ISO/IEC 27002 for telecommunications organizations	30.60
ISO/IEC 27013	Information security, cybersecurity and privacy protection — Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1	60.00
ISO/IEC WD 27031	Information technology — Cybersecurity — Information and communication technology readiness for business continuity	20.60
ISO/IEC CD 27032.2	Information Technology — Cybersecurity — Guidelines for Internet Security	30.60
ISO/IEC WD 27033-7.3	Information technology – Network security — Part 7: Guidelines for network virtualization security	20.20
ISO/IEC CD 27035-1	Information technology – Information security incident management — Part 1: Principles and process	30.60
ISO/IEC DIS 27035-2	Information technology — Information security incident management — Part 2: Guidelines to plan and prepare for incident response	40.00
ISO/IEC WD 27035-4	Information technology — Information security incident management — Part 4: Coordination	20.60
ISO/IEC DIS 27036-2	Cybersecurity — Supplier relationships — Part 2: Requirements	40.20
ISO/IEC CD 27036-3.2	Cybersecurity — Supplier relationships — Part 3: Guidelines for hardware, software, and services supply chain security	30.20
ISO/IEC WD 27046.4	Information technology — Big data security and privacy — Implementation guidelines	20.60
ISO/IEC DIS 27400	Cybersecurity — IoT security and privacy — Guidelines	40.60
ISO/IEC CD 27402.2	Cybersecurity — IoT security and privacy — Device baseline requirements	30.60
ISO/IEC WD 27403.6	Cybersecurity – IoT security and privacy – Guidelines for IoT-domotics	20.20
ISO/IEC DIS 27553-1	Information security, cybersecurity and privacy protection — Security and Privacy requirements for authentication using biometrics on mobile devices — Part 1: Local modes	40.00
ISO/IEC DIS 27557	Information technology — Information security, cybersecurity and privacy protection — Organizational privacy risk management	40.00
ISO/IEC DIS 27559	Privacy enhancing data de-identification framework	40.00

IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/IEC WD TS 27561	Information technology — Security techniques — Privacy operationalisation model and method for engineering (POMME)	20.20
ISO/IEC WD 27562	Privacy guidelines for fintech services	20.20

MTE/1/1 - MACHINE TOOLS - SAFETY		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/AWI 6909	Machine tools Safety — Press brakes	20.00
ISO/DIS 16089	Machine tools — Safety — Stationary grinding machines	40.99
ISO/FDIS 16090-1	Machine tools safety — Machining centres, milling machines, transfer machines — Part 1: Safety requirements	50.00
ISO/CD 23125-1	Machine tools safety — Turning machines — Part 1: Safety requirements	30.00
ISO/AWI TR 23125-2	Machine tools — Safety — Turning machines — Part 2: Examples for the application of an optional special mode for manual intervention under restricted operating conditions (MO 3)	10.99
ISO/FDIS 28881	Machine tools — Safety — Electrical discharge machines	50.20

MTE/1/2 - MACHINE TOOLS - ACCURACY		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO 230-4	Test code for machine tools — Part 4: Circular tests for numerically controlled machine tools	60.00
ISO/PRF 230-10	Test code for machine tools — Part 10: Determination of the measuring performance of probing systems of numerically controlled machine tools	50.20
ISO/DIS 230-12	Test code for machine tools — Part 12: Accuracy of finished test pieces	40.99
ISO/AWI 2407	Test conditions for internal cylindrical grinding machines with horizontal spindle — Testing of accuracy	20.00
ISO/CD 2773	Test conditions for pillar type vertical drilling machines — Testing of the accuracy	30.60
ISO/FDIS 6779	Test conditions for vertical internal type broaching machines — Testing of accuracy	50.00
ISO/AWI 8636-2	Machine tools — Test conditions for bridge-type milling machines — Testing of the accuracy — Part 2: Travelling bridge (gantry-type) machines	20.00

MTE/1/2 - MACHINE TOOLS - ACCURACY		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/DIS 10791-2	Test conditions for machining centres — Part 2: Geometric tests for machines with vertical spindle (vertical Z-axis)	40.20
ISO/DIS 10791-10	Test conditions for machining centres — Part 10: Evaluation of thermal distortions	40.99
ISO/DIS 26303	Machine tools — Short-term capability evaluation of machining processes on metal-cutting machine tools	40.99

PH/9 - APPLIED ERGONOMICS		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO 9241-20	Ergonomics of human-system interaction — Part 20: An ergonomic approach to accessibility within the ISO 9241 series	60.00
ISO/CD 9241-115	Ergonomics of human-system interaction — Part 115: Guidance on conceptual design, user-system interaction design, user interface design, and navigation design	30.60
ISO/CD 9241-221	Ergonomics of human-system interaction — Part 221: HCD Process Assessment Model (PAM) and Process Reference Model (PRM)	30.20
ISO/DTR 9241-311	Ergonomics of human-system interaction — Part 311: Guidance on application of ISO 9241-307: LCD screens for workstations	30.99
ISO/DTR 9241-380	Ergonomics of human-system interaction — Part 380: Survey result of HMD (Head-Mounted Displays) characteristics related to human-system interaction	30.60
ISO/WD 9241-381	Ergonomics of human-system interaction — Part 381: Requirements for optical characteristics of head-mounted displays related to human-system interaction	20.00
ISO/WD 9241-382	Ergonomics of human-system interaction — Part 382: General requirements for reducing undesirable biomedical effects during visual interactive tasks using head-mounted displays	20.00
ISO/TS 9241-430	Ergonomics of human-system interaction — Part 430: Recommendations for the design of non-touch gestural input for the reduction of biomechanical stress	60.00
ISO/DTR 9241-610.2	Ergonomics of human-system interaction — Part 610: Impact of light and lighting on users of interactive systems	30.60
ISO/DTR 25060	Systems and software engineering — Systems and software product Quality Requirements and Evaluation (SQuaRE) — Common Industry Format (CIF) for usability: General framework for usability-related information	30.20

PH/9 - APPLIED ERGONOMICS		
STANDARDS UNDERDEVELOPMENT		STAGE
ISO/DIS 7730	Ergonomics of the thermal environment — Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria	40.99
ISO/DIS 7933.2	Ergonomics of the thermal environment — Analytical determination and interpretation of heat stress using calculation of the predicted heat strain	40.20
ISO/CD 8025	Ergonomics of the thermal environment : Management of working conditions in hot environments	30.99
ISO 8996	Ergonomics of the thermal environment — Determination of metabolic rate	60.00
ISO/DTR 23454-1	Human performance in physical environments — Part 1: A performance framework	30.60
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	30.00
ISO/DIS 24505	Ergonomics — Accessible design — Method for creating colour combinations taking account of age-related changes in human colour vision	40.99

QS/1/2 - QUALITY MANAGEMENT SYSTEM STANDARDS	
STANDARDS UNDERDEVELOPMENT	STAGE
NON UNDERDEVELOPMENT	

For further information on any of the standards listed in this document, please do not hesitate to get in contact (contact details on final page).



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