# 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 June 2022 updated booklet and the next update would be sent in June 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:

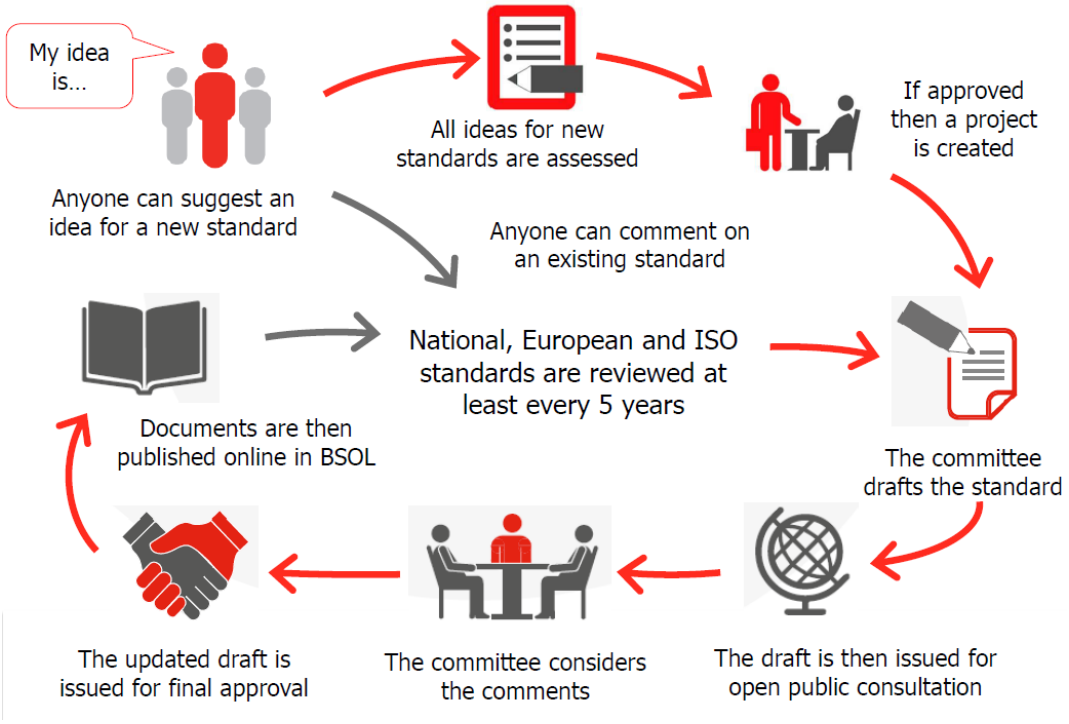


*Figure 1 – Standards Update Process*

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/CD 14649-2 | Industrial automation systems and integration — Physical device control — Data model for computerized numerical controllers — Part 2: General process data | 30.92 |
| ISO/CD 14649-3 | Industrial automation systems and integration — Physical device control — Data model for computerized numerical controllers — Part 3: Manufacturing features | 30.92 |
| ISO/CD 14649-4 | Industrial automation systems and integration — Physical device control — Data model for computerized numerical controllers — Part 4: Process data for cutting | 30.92 |
| ISO/CD 14649-5 | Industrial automation systems and integration — Physical device control — Data model for computerized numerical controllers — Part 5: Tools for cutting operations | 30.92 |
| ISO/FDIS 23218-1 | Industrial automation systems and integration — Numerical control systems for machine tools — Part 1: Requirements for numerical control systems | 50.20 |
| ISO/DIS 23218-2 | Industrial automation systems and integration — Numerical control systems for machine tools — Part 2: Requirements for numerical control system integration | 40.99 |
| ISO/FDIS 23704-1 | General requirements for cyber-physically controlled smart machine tool systems (CPSMT) — Part 1: Overview and fundamental principles | 50.20 |
| ISO/FDIS 23704-2 | General requirements for cyber-physically controlled smart machine tool systems (CPSMT) — Part 2: Reference architecture of CPSMT for subtractive manufacturing | 50.20 |
| ISO/DIS 23704-3 | General requirements for cyber-physically controlled smart machine tool systems (CPSMT) — Part 3: Reference architecture of CPSMT for additive manufacturing | 40.20 |
| ISO/DTR 3151-1 | Visualization elements of PLM-MES interface — Part 1: Overview | 30.99 |
| ISO/AWI 3151-2 | Visualization elements of PLM-MES interface — Part 2: 3D error feedback in the plant industry | 20.00 |
| ISO/AWI 8000-2 | Data quality — Part 2: Vocabulary | 40.99 |
| ISO/DIS 8000-51 | Data quality — Part 51: Data governance: Exchange of data policy statements | 40.20 |

| AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO 8000-64 | Data quality — Part 64: Data quality management: Organizational process maturity assessment: Application of the Test Process Improvement method | 60.00 |
| ISO/PRF TS 8000-82 | Data quality — Part 82: Data quality assessment: Creating data rules | 50.20 |
| ISO/AWI 8000-114 | Data quality — Part 114: Master data: Application of ISO/IEC 21778 and ISO 8000-115 to portable data | 20.00 |
| ISO/DIS 8000-117 | Data quality — Part 117: Application of ISO 8000-115 to identifiers in distributed ledgers including blockchains | 40.20 |
| ISO 8000-150 | Data quality — Part 150: Data quality management: Roles and responsibilities | 60.00 |
| ISO/AWI 8000-210 | Data quality — Part 210: Part 210: Sensor data: Data quality characteristics | 20.00 |
| ISO/AWI PAS 8329 | xMCF — A Description and Data Standard for Connection and Joining Data in Structural Systems | 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/CD 10303-2 | Industrial automation systems and integration — Product data representation and exchange — Part 2: STEP Vocabulary | 30.99 |
| ISO/CD 10303-41 | Industrial automation systems and integration — Product data representation and exchange — Part 41: Integrated generic resource: Fundamentals of product description and support | 30.00 |
| ISO/CD 10303-42 | Industrial automation systems and integration — Product data representation and exchange — Part 42: Integrated generic resource: Geometric and topological representation | 30.00 |
| ISO/DIS 10303-43 | Industrial automation systems and integration — Product data representation and exchange — Part 43: Integrated generic resource: Representation structures | 40.99 |
| ISO/AWI 10303-44 | Industrial automation systems and integration — Product data representation and exchange — Part 44: Integrated generic resource: Product structure configuration | 40.99 |
| ISO/AWI 10303-46 | Industrial automation systems and integration — Product data representation and exchange — Part 46: Integrated generic resource: Visual presentation | 40.99 |

| AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/AWI 10303-47 | Industrial automation systems and integration — Product data representation and exchange — Part 47: Integrated generic resource: Shape variation tolerances | 40.99 |
| ISO/AWI 10303-59 | Industrial automation systems and integration — Product data representation and exchange — Part 59: Integrated generic resource: Quality of product shape data | 40.99 |
| ISO/AWI 10303-101 | Industrial automation systems and integration — Product data representation and exchange — Part 101: Integrated application resource: Draughting | 40.99 |
| ISO/AWI 10303-113 | Industrial automation systems and integration — Product data representation and exchange — Part 113: Integrated application resource: Mechanical features | 40.99 |
| 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/FDIS 10303-238 | Industrial automation systems and integration — Product data representation and exchange — Part 238: Application protocol: Model based integrated manufacturing | 50.00 |
| 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/FDIS 10303-242 | Industrial automation systems and integration — Product data representation and exchange — Part 242: Application protocol: Managed model-based 3D engineering | 50.00 |
| ISO/AWI 10303-242 | Industrial automation systems and integration — Product data representation and exchange — Part 242: Application protocol: Managed model-based 3D engineering | 20.00 |
| 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/CD TS 10303-410 | Industrial automation systems and integration — Product data representation and exchange — Part 410: Application module: AP210 electronic assembly interconnect and packaging design | 30.00 |

| AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/CD TS 10303-442 | Industrial automation systems and integration — Product data representation and exchange — Part 442: Application module: AP242 managed model based 3D engineering | 30.00 |
| ISO/AWI 10303-517 | Industrial automation systems and integration — Product data representation and exchange — Part 517: Application interpreted construct: Mechanical design geometric presentation | 40.99 |
| ISO/CD TS 10303-1004 | Industrial automation systems and integration — Product data representation and exchange — Part 1004: Application module: Elemental geometric shape | 30.00 |
| ISO/CD TS 10303-1005 | Industrial automation systems and integration — Product data representation and exchange — Part 1005: Application module: Elemental topology | 30.00 |
| ISO/CD TS 10303-1006 | Industrial automation systems and integration — Product data representation and exchange — Part 1006: Application module: Foundation representation | 30.00 |
| ISO/CD TS 10303-1027 | Industrial automation systems and integration — Product data representation and exchange — Part 1027: Application module: Contextual shape positioning | 30.00 |
| ISO/CD TS 10303-1104 | Industrial automation systems and integration — Product data representation and exchange — Part 1104: Application module: Specified product | 30.00 |
| ISO/CD TS 10303-1310 | Industrial automation systems and integration — Product data representation and exchange — Part 1310: Application module: Draughting element | 30.00 |
| ISO/CD TS 10303-1323 | Industrial automation systems and integration — Product data representation and exchange — Part 1323: Application module: Basic geometric topology | 30.00 |
| ISO/CD TS 10303-1628 | Industrial automation systems and integration — Product data representation and exchange — Part 1628: Application module: Design product data management | 30.00 |
| ISO/CD TS 10303-1737 | Industrial automation systems and integration — Product data representation and exchange — Part 1737: Application module: Printed physical layout template | 30.00 |
| ISO/CD TS 10303-1748 | Industrial automation systems and integration — Product data representation and exchange — Part 1748: Application module: Stratum non planar shape | 30.00 |
| ISO/CD TS 10303-1767 | Industrial automation systems and integration — Product data representation and exchange — Part 1767: Application module: Composite constituent shape | 30.00 |

| AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/CD TS 10303-1770 | Industrial automation systems and integration — Product data representation and exchange — Part 1770: Application module: Part and zone laminate tables | 30.00 |
| ISO/CD TS 10303-1792 | Industrial automation systems and integration — Product data representation and exchange — Part 1792: Application module: Sketch | 30.00 |
| ISO/CD TS 10303-1815 | Industrial automation systems and integration — Product data representation and exchange — Part 1815: Application module: Mating structure | 30.00 |
| ISO/DIS 10303-1819 | Industrial automation systems and integration — Product data representation and exchange — Part 1819: Application module: Tessellated geometry | 40.99 |
| ISO/CD TS 10303-1828 | Industrial automation systems and integration — Product data representation and exchange — Part 1828: Application module: Wiring harness assembly design | 30.00 |
| ISO/CD TS 10303-1830 | Industrial automation systems and integration — Product data representation and exchange — Part 1830: Application module: Edge based topological representation with length | 30.00 |
| ISO/CD TS 10303-1838 | Industrial automation systems and integration — Product data representation and exchange — Part 1838: Application module: Annotated 3D model equivalence criteria | 30.00 |
| ISO/CD TS 10303-1844 | Industrial automation systems and integration — Product data representation and exchange — Part 1844: Application module: General design connectivity | 30.00 |
| ISO/CD TS 10303-1846 | Industrial automation systems and integration — Product data representation and exchange — Part 1846: Application module: Mechanical design features and requirements | 30.00 |
| 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 |

| AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| 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/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 10303-4442 | Industrial automation systems and integration — Product data representation and exchange — Part 4442: Domain model: Managed model based 3D engineering domain | 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 |
| ISO/AWI 15926-6 | Industrial automation systems and integration — Integration of life-cycle data for process plants including oil and gas production facilities — Part 6: Methodology for the development and validation of reference data | 20.00 |
| ISO/DTS 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 | 30.99 |

| AMT/4 - INDUSTRIAL DATA AND MANUFACTURING INTERFACES | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| 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/AWI TS 23301 | STEP geometry visualization services | 20.00 |
| ISO/DIS 29002 | Industrial automation systems and integration — Exchange of characteristic data | 40.60 |

| AMT/008 ADDITIVE MANUFACTURING | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/ASTM DIS 52902 | Additive manufacturing — Test artifacts — Geometric capability assessment of additive manufacturing systems | 40.99 |
| 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 DIS 52908 | Additive manufacturing of metals — Finished Part properties — Post-processing, inspection and testing of parts produced by powder bed fusion | 40.99 |
| ISO/ASTM DIS 52909 | Additive manufacturing — Finished part properties — Orientation and location dependence of mechanical properties for metal powder bed fusion | 40.60 |
| ISO/ASTM CD 52910 | Additive manufacturing — Design — Requirements, guidelines and recommendations | 30.99 |
| ISO/ASTM DIS 52911-3 | Additive Manufacturing — Design — Part 3: Electron beam powder bed fusion of metals | 40.99 |
| ISO/ASTM DTR 52913-1 | Additive manufacturing — Feedstock materials — Part 1: Parameters for characterization of powder flow properties | 30.92 |
| ISO/ASTM PRF TR 52917 | Additive manufacturing — Round robin testing — General guidelines | 50.2 |
| ISO/ASTM CD TR 52918 | Additive manufacturing — Data formats — File format support, ecosystem and evolutions | 30 |
| ISO/ASTM DIS 52920 | Additive manufacturing — Qualification principles — Requirements for industrial additive manufacturing processes and production sites | 40.99 |

| AMT/008 ADDITIVE MANUFACTURING | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/ASTM DIS 52921 | Additive manufacturing — General principles — Part positioning, coordinates and orientation | 40.99 |
| ISO/ASTM DIS 52924 | Additive manufacturing of polymers — Qualification principles — Classification of part properties | 40.99 |
| ISO/ASTM DIS 52926-1 | Additive Manufacturing of metals — Qualification principles — Part 1: General qualification of operators | 40.60 |
| ISO/ASTM DIS 52926-2 | Additive Manufacturing of metals — Qualification principles — Part 2: Qualification of operators for PBF-LB | 40.60 |
| ISO/ASTM DIS 52926-3 | Additive Manufacturing of metals — Qualification principles — Part 3: Qualification of operators for PBF-EB | 40.60 |
| ISO/ASTM DIS 52926-4 | Additive Manufacturing of metals — Qualification principles — Part 4: Qualification of operators for DED-LB | 40.60 |
| ISO/ASTM DIS 52926-5 | Additive Manufacturing of metals — Qualification principles — Part 5: Qualification of operators for DED-Arc | 40.60 |
| ISO/ASTM DIS 52927 | Additive manufacturing — General principles — Main characteristics and corresponding test methods | 40.60 |
| 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 | 40.99 |
| 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 DIS 52935 | Additive manufacturing of metals – Qualification principles – Qualification of AM coordination personnel | 40.00 |
| 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 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 |

| AMT/008 ADDITIVE MANUFACTURING | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/ASTM CD 52943-2 | Additive manufacturing for aerospace — Process characteristics and performance — Part 2: Directed energy deposition using wire and arc | 30.20 |
| ISO/ASTM DIS 52945 | Additive manufacturing for automotive — Qualification principles — Generic machine evaluation and specification of key performance indicators for PBF-LB/M processes | 40.00 |
| 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/CD 5363 | Robotics — Test methods for Exoskeleton-type Walking RACA Robot | 30.99 |
| 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/FDIS 10218-1 | Robotics — Safety requirements — Part 1: Industrial robots | 50.00 |
| ISO/FDIS 10218-2 | Robotics — Safety requirements — Part 2: Industrial robot systems, robot applications and robot cells | 50.00 |
| 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 | 30.99 |
| ISO/CD 22166-201 | Robotics — Modularity for service robots — Part 201: Common information model for modules | 30.99 |
| ISO/DIS 31101 | Robotics — Application services provided by service robots — Safety management systems requirements | 40.20 |
| 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 | 40.99 |
| 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 | 40.99 |

| IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/IEC DIS 4922-1 | Information security — Secure multiparty computation — Part 1: General | 40.60 |
| ISO/IEC CD 4922-2 | Information security — Secure multiparty computation — Part 2: Mechanisms based on secret sharing | 30.60 |
| ISO/IEC AWI 5888 | Information security, cybersecurity and privacy protection — Security requirements and evaluation activities for connected vehicle devices | 20.00 |
| ISO/IEC DTR 5891 | Information security, cybersecurity and privacy protection — Hardware monitoring technology for hardware security assessment | 30.99 |
| ISO/IEC PRF TR 5895 | Cybersecurity — Multi-party coordinated vulnerability disclosure and handling | 50.20 |
| ISO/IEC DTR 6114 | Cybersecurity – Security assurance throughout the product life cycle | 30.60 |
| ISO/IEC WD TS 9569 | Information security, cybersecurity and privacy protection — Towards Creating an Extension for Patch Management for ISO/IEC 15408 and ISO/IEC 18045 | 20.60 |
| ISO/IEC 9797-1:2011/CD AMD 1 | 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 | 30.20 |
| ISO/IEC WD 14888-4 | Information technology — Security techniques — Digital signatures with appendix — Part 4: Stateful hash-based mechanisms | 20.60 |
| ISO/IEC 15408-1 | Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 1: Introduction and general model | 60.00 |
| ISO/IEC 15408-2 | Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 2: Security functional components | 60.00 |
| ISO/IEC 15408-3 | Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 3: Security assurance components | 60.00 |
| ISO/IEC 15408-4 | Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 4: Framework for the specification of evaluation methods and activities | 60.00 |

| IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/IEC 15408-5 | Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Part 5: Pre-defined packages of security requirements | 60.00 |
| ISO/IEC WD 17825.2 | Information technology — Security techniques — Testing methods for the mitigation of non-invasive attack classes against cryptographic modules | 60.00 |
| ISO/IEC WD 18031 | Information technology — Security techniques — Random bit generation | 20.60 |
| ISO/IEC AWI 18033-8 | Information security — Encryption algorithms — Part 8: Fully Homomorphic Encryption | 20.60 |
| ISO/IEC 18045 | Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Methodology for IT security evaluation | 20.00 |
| ISO/IEC WD 19790.2 | Information technology — Security techniques — Security requirements for cryptographic modules | 60.00 |
| ISO/IEC WD 19792 | Information technology — Security techniques — Security evaluation of biometrics | 20.60 |
| ISO/IEC WD 19896-1 | IT security techniques — Competence requirements for information security testers and evaluators — Part 1: Introduction, concepts and general requirements | 20.20 |
| ISO/IEC WD 19896-2 | IT security techniques — Competence requirements for information security testers and evaluators — Part 2: Knowledge, skills and effectiveness requirements for ISO/IEC 19790 testers | 20.20 |
| ISO/IEC WD 19896-3 | IT security techniques — Competence requirements for information security testers and evaluators — Part 3: Knowledge, skills and effectiveness requirements for ISO/IEC 15408 evaluators | 20.20 |
| ISO/IEC 20008-2:2013/DAMD 2 | Information technology — Security techniques — Anonymous digital signatures — Part 2: Mechanisms using a group public key — Amendment 2 | 40.20 |
| ISO/IEC AWI 20008-3 | Information technology — Security techniques — Anonymous digital signatures — Part 3: Mechanisms using multiple public keys | 20.00 |
| ISO/IEC 20897-2 | Information security, cybersecurity and privacy protection — Physically unclonable functions — Part 2: Test and evaluation methods | 60.00 |
| ISO/IEC TR 22216 | Information security, cybersecurity and privacy protection — New concepts and changes in ISO/IEC 15408:2022 and ISO/IEC 18045:2022 | 60.00 |

| IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| 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 DIS 23837-1 | Information technology security techniques — Security requirements, test and evaluation methods for quantum key distribution — Part 1: Requirements | 40.00 |
| ISO/IEC DIS 23837-2 | Information technology security techniques — Security requirements, test and evaluation methods for quantum key distribution — Part 2: Evaluation and testing methods | 40.00 |
| ISO/IEC DIS 24392 | Cybersecurity — Security reference model for industrial Internet platform (SRM- IIP) | 40.00 |
| ISO/IEC WD TS 24462 | Ontology for ICT Trustworthiness Assessment | 20.20 |
| ISO/IEC DTR 24485.4 | Information technology — Security techniques — Security properties, test and evaluation guidance for white box cryptography | 30.99 |
| ISO/IEC WD 24759.2 | Information technology — Security techniques — Test requirements for cryptographic modules | 20.60 |
| ISO/IEC 24760-1:2019/DAMD 1 | IT Security and Privacy — A framework for identity management — Part 1: Terminology and concepts — Amendment 1: Additonal terminology items and concepts | 40.00 |
| ISO/IEC CD 24760-2.2 | IT Security and Privacy — A framework for identity management — Part 2: Reference architecture and requirements | 30.60 |
| ISO/IEC 24760-3:2016/DAMD 1 | Information technology — Security techniques — A framework for identity management — Part 3: Practice — Amendment 1: Identity Information Lifecycle processes | 40.00 |
| ISO/IEC 27001:2013/DAMD 1 | Information technology — Security techniques — Information security management systems — Requirements — Amendment 1 | 40.60 |
| ISO/IEC DIS 27005 | Information security, cybersecurity and privacy protection — Guidance on managing information security risks | 40.60 |
| ISO/IEC DIS 27006-1 | Requirements for bodies providing audit and certification of information security management systems — Part 1: General | 40.00 |
| ISO/IEC AWI 27006-2 | Requirements for bodies providing audit and certification of information security management systems — Part 2: Privacy information management systems | 20.00 |

| IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION | | |
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| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/IEC CD 27011.2 | Information security, cybersecurity and privacy protection — Information security controls based on ISO/IEC 27002 for telecommunications organizations | 30.60 |
| ISO/IEC AWI TR 27024 | ISO/IEC 27001 family of standards references list — Use of ISO/IEC 27001 family of standards in Governmental / Regulatory requirements | 20.00 |
| ISO/IEC WD 27031 | Information technology — Cybersecurity — Information and communication technology readiness for business continuity | 20.60 |
| ISO/IEC DIS 27032 | Cybersecurity — Guidelines for Internet security | 40.00 |
| ISO/IEC CD 27033-7 | Information technology – Network security — Part 7: Guidelines for network virtualization security | 30.60 |
| ISO/IEC DIS 27035-1 | Information technology – Information security incident management — Part 1: Principles and process | 40.20 |
| ISO/IEC DIS 27035-2 | Information technology — Information security incident management — Part 2: Guidelines to plan and prepare for incident response | 40.60 |
| ISO/IEC CD 27035-4 | Information technology — Information security incident management — Part 4: Coordination | 30.20 |
| ISO/IEC FDIS 27036-2 | Cybersecurity — Supplier relationships — Part 2: Requirements | 50.20 |
| ISO/IEC DIS 27036-3 | Cybersecurity — Supplier relationships — Part 3: Guidelines for hardware, software, and services supply chain security | 40.20 |
| ISO/IEC DIS 27040 | Information technology — Security techniques — Storage security | 40.00 |
| ISO/IEC WD 27046.4 | Information technology — Big data security and privacy — Implementation guidelines | 20.60 |
| ISO/IEC DIS 27071 | Cybersecurity — Security recommendations for establishing trusted connections between devices and services | 40.00 |
| ISO/IEC FDIS 27099 | Information Technology — Public key infrastructure — Practices and policy framework | 50.20 |
| ISO/IEC AWI TR 27109 | Cybersecurity education and training | 20.00 |
| ISO/IEC 27400 | Cybersecurity — IoT security and privacy — Guidelines | 60.00 |
| ISO/IEC CD 27402.2 | Cybersecurity — IoT security and privacy — Device baseline requirements | 30.60 |
| ISO/IEC CD 27403 | Cybersecurity – IoT security and privacy – Guidelines for IoT-domotics | 30.60 |

| IST/33 - INFORMATION SECURITY, CYBERSECURITY AND PRIVACY PROTECTION | | |
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| STANDARDS UNDERDEVELOPMENT | | STAGE |
| 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 | 40.60 |
| ISO/IEC CD 27554 | Application of ISO 31000 for assessment of identity-related risk | 30.60 |
| ISO/IEC DIS 27556 | Information security, cybersecurity and privacy protection – User-centric privacy preferences management framework | 40.60 |
| ISO/IEC DIS 27557 | Information technology — Information security, cybersecurity and privacy protection — Organizational privacy risk management | 40.60 |
| ISO/IEC DIS 27559 | Privacy enhancing data de-identification framework | 40.60 |
| ISO/IEC AWI TS 27560 | Privacy technologies — Consent record information structure | 20.00 |
| ISO/IEC AWI 27561 | Information technology — Security techniques — Privacy operationalisation model and method for engineering (POMME) | 20.00 |
| ISO/IEC WD 27562 | Security and privacy in artificial intelligence use cases | 20.20 |
| ISO/IEC DTR 27563 | Impact of security and privacy in artificial intelligence | 30.20 |
| ISO/IEC AWI 27565 | Guidelines on privacy preservation based on zero knowledge proofs | 20.00 |
| ISO/IEC DIS 29128-1 | Information security, cybersecurity and privacy protection — Verification of cryptographic protocols — Part 1: Framework | 40.60 |
| ISO/IEC 29134:2017/DAMD 1 | Information technology — Security techniques — Guidelines for privacy impact assessment — Amendment 1 | 40.20 |
| ISO/IEC 29146:2016/DAMD 1 | Information technology — Security techniques — A framework for access management — Amendment 1 | 40.60 |
| ISO/IEC FDIS 29192-8 | Information security — Lightweight cryptography — Part 8: Authenticated encryption | 50.00 |

| MTE/1/1 - MACHINE TOOLS - SAFETY | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/AWI 6909 | Machine tools Safety — Press brakes | 20 |
| ISO/DIS 16089 | Machine tools — Safety — Stationary grinding machines | 40.99 |

| MTE/1/1 - MACHINE TOOLS - SAFETY | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/FDIS 16090-1 | Machine tools safety — Machining centres, milling machines, transfer machines — Part 1: Safety requirements | 50 |
| ISO/CD 23125-1 | Machine tools safety — Turning machines — Part 1: Safety requirements | 30.6 |
| 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 |

| MTE/1/2 - MACHINE TOOLS - ACCURACY | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO 230-12 | Test code for machine tools — Part 12: Accuracy of finished test pieces | 60.00 |
| ISO/CD 2407 | Test conditions for internal cylindrical grinding machines with horizontal spindle — Testing of accuracy | 30.60 |
| ISO/DIS 2773 | Test conditions for pillar type vertical drilling machines — Testing of the accuracy | 40.00 |
| ISO/DIS 6779 | Test conditions for vertical internal type broaching machines — Testing of accuracy | 40.20 |
| ISO/CD 8636-2 | Machine tools — Test conditions for bridge-type milling machines — Testing of the accuracy — Part 2: Travelling bridge (gantry-type) machines | 30.60 |
| ISO/DIS 10791-2 | Test conditions for machining centres — Part 2: Geometric tests for machines with vertical spindle (vertical Z-axis) | 40.60 |
| ISO/FDIS 10791-10 | Test conditions for machining centres — Part 10: Evaluation of thermal distortions | 50.00 |
| ISO/FDIS 19085-4 | Woodworking machines — Safety — Part 4: Vertical panel circular sawing machines | 50.00 |
| ISO/FDIS 19085-5 | Woodworking machines — Safety — Part 5: Dimension saws | 50.00 |
| ISO/FDIS 19085-6 | Woodworking machines — Safety — Part 6: Single spindle vertical moulding machines (toupie) | 50.00 |
| ISO/DIS 19085-7 | Woodworking machines — Safety — Part 7: Surface planing, thickness planing, combined surface/thickness planing machines | 40.00 |

| MTE/1/2 - MACHINE TOOLS - ACCURACY | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO/FDIS 19085-8 | Woodworking machines — Safety — Part 8: Wide belt sanding machines and surface treating machines | 50 |
| ISO/DIS 19085-9 | Woodworking machines — Safety — Part 9: Circular saw benches (with and without sliding table) | 40 |
| ISO/DIS 19085-11 | Woodworking machines — Safety — Part 11: Combined machines | 40 |
| ISO/CD 19085-12 | Woodworking machines — Safety — Part 12: Tenoning/profiling machines | 30.99 |
| ISO/CD 19085-13 | Woodworking machines — Safety — Part 13: Multi-blade rip sawing machines with manual loading and/or unloading | 30.99 |
| ISO/CD 19085-15 | Woodworking machines — Safety — Part 15: Presses | 30.99 |

| PH/9 - APPLIED ERGONOMICS | | |
|---|---|---|
| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO 6385:2016 | Ergonomics principles in the design of work systems | 90.93 |
| ISO 10075-1:2017 | Ergonomic principles related to mental workload — Part 1: General issues and concepts, terms and definitions | 60.60 |
| ISO 10075-2:1996 | Ergonomic principles related to mental workload — Part 2: Design principles | 90.92 |
| ISO/WD 10075-2 | Ergonomic principles related to mental workload — Part 2: Design principles | 20.20 |
| ISO 10075-3:2004 | Ergonomic principles related to mental workload — Part 3: Principles and requirements concerning methods for measuring and assessing mental workload | 90.93 |
| ISO 20282-1:2006 | Ease of operation of everyday products — Part 1: Design requirements for context of use and user characteristics | 90.93 |
| ISO 26800:2011 | Ergonomics — General approach, principles and concepts | 90.60 |
| ISO 27500:2016 | The human-centred organization — Rationale and general principles | 90.93 |
| ISO 27501:2019 | The human-centred organization — Guidance for managers | 60.60 |
| ISO/AWI 5716 | Multivariate analysis tools and techniques for synthesis with anthropometric data | 20.00 |
| ISO/DTR 7015 | Ergonomics — Informative Application Document for International Standards (ISO 11228-1, ISO 11228-2 and ISO 11228-3), static working posture (ISO 11226), ISO/TR 12295 and the recent ISO TR 23476 (agriculture) in the construction sector (civil construction) | 30.20 |

| PH/9 - APPLIED ERGONOMICS | | |
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| STANDARDS UNDERDEVELOPMENT | | STAGE |
| ISO 11226:2000 | Ergonomics — Evaluation of static working postures | 90.93 |
| ISO 11226:2000/COR 1:2006 | Ergonomics — Evaluation of static working postures — Technical Corrigendum 1 | 60.60 |
| ISO 11228-1:2021 | Ergonomics — Manual handling — Part 1: Lifting, lowering and carrying | 60.60 |
| ISO 11228-2:2007 | Ergonomics — Manual handling — Part 2: Pushing and pulling | 90.93 |
| ISO 11228-2:2007/PRF AMD 1 | Ergonomics — Manual handling — Part 2: Pushing and pulling — Amendment 1 | 50.00 |
| ISO 11228-3:2007 | Ergonomics — Manual handling — Part 3: Handling of low loads at high frequency | 90.92 |
| ISO/AWI 11228-3 | Ergonomics — Manual handling — Part 3: Handling of low loads at high frequency | 20.00 |
| ISO/TR 12295:2014 | Ergonomics — Application document for International Standards on manual handling (ISO 11228-1, ISO 11228-2 and ISO 11228-3) and evaluation of static working postures (ISO 11226) | 60.60 |
| ISO/TR 12296:2012 | Ergonomics — Manual handling of people in the healthcare sector | 60.60 |
| ISO 14738:2002 | Safety of machinery — Anthropometric requirements for the design of workstations at machinery | 90.92 |
| ISO 14738:2002/COR 1:2003 | Safety of machinery — Anthropometric requirements for the design of workstations at machinery — Technical Corrigendum 1 | 60.60 |
| ISO 14738:2002/COR 2:2005 | Safety of machinery — Anthropometric requirements for the design of workstations at machinery — Technical Corrigendum 2: . | 60.60 |
| ISO/DIS 14738 | Safety of machinery — Anthropometric requirements for the design of workstations for industries and services | 40.99 |
| ISO 15534-1:2000 | Ergonomic design for the safety of machinery — Part 1: Principles for determining the dimensions required for openings for whole-body access into machinery | 90.93 |
| ISO 15534-2:2000 | Ergonomic design for the safety of machinery — Part 2: Principles for determining the dimensions required for access openings | 90.93 |

| QS/1/2 - QUALITY MANAGEMENT SYSTEM STANDARDS | |
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| 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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