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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 3 SEPTEMBER 2021

Under the National Standardisation Programme, the public comment period is an important stage of standards development. Members of the public are invited to provide feedback on draft Singapore Standards for publication and work item proposals for development and review of Singapore Standards and Technical References. The establishment of Singapore Standards is done in accordance with the World Trade Organisation's requirements for the development of national standards.

A) Notification of Draft Singapore Standards for Publication

Members of the public are invited to comment on the following Singapore Standard documents:

Building and Construction – [aquatic facilities](#)

Chemical – [bunker supply chain](#)

Quality and Safety – [fusion welding](#) (8 standards), [asset management](#)

Closing date for comments: **5 November 2021** (except for the standards on fusion welding which will close on **16 November 2021**).

For more information on viewing the documents, [click here](#).

Please submit comments to: kay_chua@enterprisesg.gov.sg.

B) Notification of New Work Item Proposals

New Work Items (NWIs) are approved proposals to develop new Singapore Standards, or pre-standards like Technical References and Workshop Agreements. The Workshop Agreement is a pilot deliverable under the Singapore Standardisation Programme.

Members of the public are invited to comment on the scope of the new standards and contents that can be included into the following proposals:

Manufacturing – [cybersecurity checklist](#), [robot systems](#)

Quality and Safety – [anti-bribery management systems](#), [occupational health and safety management systems](#)

Closing date for comments: **4 October 2021** (except for the standard on cybersecurity checklist which will close on **17 September 2021**).

The NWIs are work-in-progress and the drafts are not available at this juncture.

Please submit comments to: kay_chua@enterprisesg.gov.sg.

Members of the public are invited to join as standards partners, co-opted members or resource members subject to the approval of relevant committees and working groups.

To comment or to join in the development of these standards, please write to kay_chua@enterprisesg.gov.sg.

A) Notification of draft Singapore Standards for Publication

(I) Building and Construction

Revision

1. Code of practice for the design and management of aquatic facilities (Revision of SS 556: 2010)

This standard specifies the general requirements for the design and construction, installation of equipment, operation, management and maintenance of aquatic facilities in Singapore. It is intended to ensure the safety, well-being and recreational benefits of facility users, as well as personnel who may be involved in the design, construction, operation, management and maintenance of the aquatic facilities.

This revision brings the standard up-to-date with the current industry practices, and aquatic play facilities and waterslides requirements.

Users of the standard include architects, professional engineers, consultants, contractors, developers, testing/accreditation bodies and relevant government agencies.

(II) Chemical

Revision

2. Specification for quality management for bunker supply chain (QMBS) (Revision of SS 524:2014)

This standard covers the management system for the entire bunker supply chain from management responsibility, product procurement, custody control to final delivery of bunker fuel to vessels in the port of Singapore.

The objectives of this standard are to ensure that:

- a) quality of bunkers supplied to vessels conforms to ISO 8217, "Petroleum products – Fuels (class F) – Specifications of marine fuels";
- b) quantity of bunkers delivered to vessels is in accordance with the requirements of SS 648, "Code of practice for bunker mass flow metering" and SS 600, "Code of practice for bunkering".

This revision includes updates with alignment to the latest version of SS 648, SS 600 and the ISO/IEC Directives Part 1, 2020 edition, Annex SL. Key changes were made to Procurement and Delivery clauses with updates on the current practices.

Users of the standard include oil terminals, bunker suppliers, surveyors, bunker tanker operators, shipowners/buyers and relevant government agencies.

(III) Quality and Safety

New

3. Quality requirements for fusion welding of metallic materials

Part 2: Comprehensive quality requirements (Identical adoption of ISO 3834-2:2021)

Part 3: Standard quality requirements (Identical adoption of ISO 3834-3:2021)

Part 4: Elementary quality requirements (Identical adoption of ISO 3834-4:2021)

This series of standards define comprehensive, standard and elementary quality requirements for fusion welding of metallic materials both in workshops and at field installation sites.

NOTE 1 – Part 1 of this International Standard is currently under development and it will be adopted when it is published.

NOTE 2 – The drafts are scheduled to be issued on 15 September 2021 subject to the approval by the Technical Committee. The closing date for comments will be 16 November 2021.

4. Qualification testing of welders – Fusion welding

Part 1: Steels (Identical adoption of ISO 9606-1:2012)

This standard specifies the requirements for qualification testing of welders for fusion welding of steels. It provides a set of technical rules for a systematic qualification test of the welder, and enables such qualifications to be uniformly accepted independently of the type of product, location and examiner or examining body.

When qualifying welders, the emphasis is placed on the welder's ability manually to manipulate the electrode, welding torch or welding blowpipe, thereby producing a weld of acceptable quality. The welding processes referred to in this standard include those fusion-welding processes which are designated as manual or partly mechanised welding. It does not cover fully mechanised and automated welding processes.

Part 2: Aluminium and aluminium alloys (Identical adoption of ISO 9606-2:2004)

This standard specifies the requirements for qualification of welders for fusion welding of aluminium and aluminium alloys. It provides a set of technical rules for systematic qualification of welders, which are independent of product type, location and examiner/examining body.

The welding processes referred to in this standard include those fusion welding processes which are designated as manual or partly mechanised welding. It does not qualify fully mechanised and automated welding processes.

Part 3: Copper and copper alloys (Identical adoption of ISO 9606-3:1999)

This standard specifies essential requirements, ranges of approval, test conditions, acceptance requirements and certification for the approval testing of welder performance for the welding of copper. It applies to the approval testing of welders for the fusion welding of copper.

This standard is intended to provide the basis for the mutual recognition by examining bodies for approval relating to welders' competence in the various fields of application. Tests will be carried out in accordance with this standard unless more severe tests are specified by the relevant application standard when these are applied.

This standard is applicable when the welder's approval testing is required by the purchaser, inspection authorities or other organisations. The welding processes referred to in this standard include those fusion welding processes which are designated as manual or partly mechanised welding. It does not cover fully mechanised and automatic processes.

Part 4: Nickel and nickel alloys (Identical adoption of ISO 9606-4:1999)

This standard specifies essential requirements, ranges of approval, test conditions, acceptance requirements and certification for the approval testing of welder performance for the welding of nickel. It applies to the approval testing of welders for the fusion welding of nickel.

This standard is intended to provide the basis for the mutual recognition by examining bodies for approval relating to welders' competence in the various fields of application. Tests will be carried out in accordance with this standard unless more severe tests are specified by the relevant application standard when these are applied.

This standard is applicable when the welder's approval testing is required by the purchaser, inspection authorities or other organisations. The welding processes referred to in this standard include those fusion welding processes which are designated as manual or partly mechanised welding. It does not cover fully mechanised and automatic processes.

Part 5: Titanium and titanium alloys, zirconium and zirconium alloys (Identical adoption of ISO 9606-5:2000)

This standard specifies essential requirements, ranges of approval, test conditions, acceptance requirements and certification for the approval testing of welder performance for the welding of titanium and zirconium. It applies to the approval testing of welders for the fusion welding of titanium and zirconium.

This standard is intended to provide the basis for the mutual recognition by examining bodies for approval relating to welders' competence in the various fields of application. Tests will be carried out in accordance with this standard unless more severe tests are specified by the relevant application standard when these are applied.

During the approval test the welder should be required to show adequate practical experience and job knowledge (test non mandatory) of the welding processes, materials and safety requirements for which he is to be approved.

This standard is applicable when the welder's approval testing is required by the purchaser, inspection authorities or other organisations. The welding processes referred to in this standard include those fusion welding processes which are designated as manual or partly mechanised welding. It does not cover fully mechanised and automatic processes.

Potential users of the series on fusion welding include testing, inspection and certification bodies, industry associations, professional institutions, academic institutions, building contractors, steel fabricators and manufacturers, suppliers, buyers, service providers, end-users, welders, training providers and relevant government agencies.

NOTE – The drafts are scheduled to be issued on 15 September 2021 subject to the approval by the Technical Committee. The closing date for comments will be 16 November 2021.

5. Asset management – Management systems – Guidelines for the application of ISO 55001 (Identical adoption of ISO 55002:2018)

This standard gives guidelines for the application of an asset management system, in accordance with the requirements of ISO 55001. It can be applied to all types of assets and by all types and sizes of organisations.

This standard does not provide financial, accounting or technical guidance for managing specific asset types, however, information is provided in Annex F on the relationship between the financial and non-financial asset management functions.

Potential users of this standard include testing, inspection and certification bodies, industry associations, professional institutions, academic institutions, suppliers, buyers, manufacturers, and service providers, end-users, training providers, consultancy companies and relevant government agencies.

Copies of the drafts and standards are available at:

Viewing from Singapore Standards eShop

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All Public Libraries' multimedia stations and on personal internet/mobile devices (e.g. mobile phones, notebooks, tablets) at all Public Libraries via NLB eDatabases "Singapore and ISO Standards Collection" (refer to www.nlb.gov.sg/VisitUs.aspx for address and viewing hours)

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NOTE – The viewing period of the drafts and standards will expire on the closing of the public comment period and will no longer be available after this date.

B) Notification of New Work Item Proposals

(I) Manufacturing

1. Workshop Agreement – Cybersecurity self-evaluation checklist and guidelines for digitalisation in manufacturing

The self-assessment cybersecurity checklist aims to help smart manufacturing companies, especially SMEs to identify their cybersecurity gaps and determine their cybersecurity readiness level based on key cybersecurity standards requirements. This checklist also helps companies and their staff (e.g. technicians, supervisors and factory operators) build up their cybersecurity awareness and knowledge; and help strengthen good cybersecurity practices when performing their daily manufacturing operations.

Potential users of the checklist include industry associations, professional institutions, testing, inspection and certification bodies and companies specifically in the manufacturing sector, and government agencies.

Interested parties or experts are encouraged to participate in this Workshop Agreement to contribute to the drafting of the document. The workshop details can be found at <https://go.gov.sg/wa-registration2021>

The closing date for comments and registration for the Workshop Agreement will be **17 September 2021**.

2. Technical Reference – Safe deployment of robot systems in the healthcare sector

This standard provides guidelines at the systems-level for the deployment of robot systems in the healthcare sector. It specifies a safety evaluation framework and the risk assessment requirement for the safe and sustainable deployment of robot systems in dynamic healthcare environments. The guidelines apply to robot systems used for various purposes in the operations of a healthcare facility, including logistics, rehabilitation and nursing or care of patients.

Potential users of the TR include institutes of higher learning, professional institutions, industry associations, testing, inspection and certification bodies, hospitals and government agencies.

(II) Quality and Safety

3. Technical Reference – Conformity assessment – Requirements for bodies providing audit and certification of management systems

Part 9: Competence requirements for auditing and certification of anti-bribery management systems (Identical adoption of ISO/IEC TS 17021-9:2016)

This standard complements the existing requirements of SS ISO/IEC 17021-1, “Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 1: Requirements”. It includes specific competence requirements for personnel involved in the certification process for anti-bribery management systems.

Part 10: Competence requirements for auditing and certification of occupational health and safety management systems (Identical adoption of ISO/IEC TS 17021-10:2018)

This standard specifies additional competence requirements for personnel involved in the audit and certification process for an occupational health and safety (OH&S) management system and complements the existing requirements of ISO/IEC 17021-1.

Potential users of the SS ISO/IEC TS 17021 series are certification and accreditation bodies.

Frequently asked questions about public comment on Singapore Standards:

1. What is the public comment on Singapore Standards?

Singapore Standards are established based on an open system which is also in accordance with the requirements of the World Trade Organisation. These documents are issued as part of a consultation process before any standards are introduced or reviewed. The public comment period is an important stage in the development of Singapore Standards. This mechanism helps industry, companies and other stakeholders to be aware of forthcoming changes to Singapore Standards and provides them with an opportunity to influence, before their publication, the standards that have been developed by their industry and for their industry.

2. How does public comment on Singapore Standards benefit me?

This mechanism:

- ensures that your views are considered and gives you the opportunity to influence the content of the standards in your area of expertise and in your industry;
- enables you to be familiar with the content of the standards before they are published and you stand to gain a competitive advantage with this prior knowledge of the standards.

3. Why do I have to pay for the standards which are proposed for review or withdrawal?

These standards are available for **free viewing** at Toppan Leefung Pte Ltd and all Public Libraries. However, the normal price of the standard will be charged for those who wish to purchase a copy. At the stage where we propose to review or withdraw the standards, the standards are still current and in use. We seek comments for these standards so as to:

- provide an opportunity for the industry to provide inputs for the review of the standard that would make the standard suitable for the industry's use,
- provide feedback on the continued need for the standard so that it will not be withdrawn,

4. Why are comments only accepted through the new public comment form provided by Enterprise Singapore?

We have developed a new public comment form which will enable users to submit their comments in a standardised and structured manner. The Working Group (WG) that will be reviewing the comments will have a better understanding of what the commenter has proposed, the rationale for the changes and where these changes will be made in the standard. This will assist the WG in addressing the comments more effectively.

5. What happens after I have submitted my comments?

The comments will be channelled to the relevant WGs for consideration and you will be informed of the outcome of the committee's decision. You may be invited to meet the WG if clarification is required on your feedback.

6. Can I view drafts after the public comment period?

Drafts will not be available after the public comment period.

7. How do I request for the development of a new standard?

You can propose the development of a new standard [here](#).