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## **ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 7 JANUARY 2022**

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 – [execution of concrete structures](#), [portable fire extinguishers](#), [timber doors](#)

Chemical – [safe use of thermal foggers](#), [bunkering](#), [laundry detergent powder for household use](#)

Quality and Safety – [ammonia refrigeration](#) (3 standards), [incident management](#), [occupational health and safety management](#), [respiratory protective devices](#), [occupational safety and health management systems](#) (2 standards)

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

Please submit comments to: [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

### **B) Notification of Work Item Proposals**

#### **B.1 Proposal for New Work Items**

New Work Items (NWIs) are approved proposals to develop new Singapore Standards or Technical References (pre-standards).

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:

Quality and Safety – [occupational health and safety management](#) (4 standards), [fusion welding](#)

Services – [geragogy guidelines for senior learners](#)

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

Please submit comments to: [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

#### **B.2 Proposal for the Review of Singapore Standards**

Published Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).

Members of the public are invited to comment on the following standard to be reviewed:

Quality and Safety – [occupational health and safety management systems](#)

The review is ongoing and the new version/draft is not available at this juncture. Users can refer to the current standard to provide feedback. [Click here](#) to view or purchase the standard.

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](mailto:kay_chua@enterprisesg.gov.sg).

## **A) Notification of draft Singapore Standards for Publication**

### **(I) Building and Construction**

#### **New**

#### **1. Execution of concrete structures (Identical adoption of EN 13670:2009)**

The standard gives common requirements for the execution of concrete structures and applies to in-situ works and construction using prefabricated concrete elements, covering both permanent and temporary concrete structures.

This standard does not apply to concrete members used only as equipment or construction aids for the execution, and the production of precast concrete elements made in accordance with product standards.

Potential users of the standard include consultants, contractors, developers, engineers, suppliers / manufacturers, tertiary institutions, testing bodies, accreditation bodies and relevant government agencies.

Comment period: 7 January to 8 March 2022

#### **Amendment**

#### **2. Amendment No. 1 to Code of practice for the use and maintenance of portable fire extinguishers (SS 578:2019)**

This amendment introduces special precautions for fighting fires involving photovoltaic (PV) solar panels, and allows for electronic monitoring as an alternative means to manual inspection for fire extinguishers.

Those who may be interested in the Amendment include fire safety managers, facility managers, building owners, contractors, manufacturers, suppliers and testing bodies.

([Click here](#) to download the amendment.)

Comment period: 7 January to 8 March 2022

#### **Mature standard**

#### **3. Specification for timber doors (SS 347:1990)**

This standard specifies requirements for various types of timber doors. It applies to basic general-purpose doors. It does not apply to fire-resistant doors, hospital doors, special-purpose doors and doors with dimensions that exceed the maximum specified in the standard.

It is proposed to classify SS 347 as a mature standard as there are no foreseeable changes to the standard. Hence, it will not be reviewed until a request is put forth to do so.

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

Comment period: 7 January to 8 March 2022

## (II) **Chemical**

### **New**

#### **4. Safe use of thermal foggers during pest management activities**

This standard specifies requirements for the safe use of thermal foggers in the following areas:

- Risk management (safety aspects in operating and handling of thermal foggers);
- Proper maintenance, storage and disposal;
- Fire prevention measures; and
- Proper emergency planning and first aid procedures.

This standard also provides best practices and points for consideration to improve the effectiveness of thermal fogging.

The draft standard was released for public comment from 16 June 2021 to 17 August 2021. The Working Group had since deliberated and addressed the comments received. The main changes are as follows:

- Transferred informative contents from body of the standard to informative annexes.
- Provided further clarity on the responsible parties in the various clauses.

Potential users of the standard include vector control management companies, town councils, estate managers, manufacturers and suppliers of vector control equipment, vector control workers and technicians as well as relevant government agencies.

Comment period: 7 January to 8 February 2022

### **Revision**

#### **5. Code of practice for bunkering by bunker tankers using tank gauging (Revision of SS 600:2014)**

This standard specifies the processes, procedures, requirements, roles and responsibilities of all parties concerned, for the delivery of bunkers by bunker tankers using tank gauging, in the Port of Singapore, including documentation, equipment standards and verification processes during a bunkering operation. It covers pre-delivery, during-delivery and post-delivery checks and documentation. It also covers the use of volumetric flow meters for bunker delivery.

The main changes in this revision are as follows:

- Updated the terms and definitions to align with other local bunkering standards.
- Updated annexes relating to quantity measurement and determination, sampling requirements, note of protest, resolution of disputes and Singapore Bunker Claims Procedure.
- Inserted a new Annex V to consolidate the existing contents related to the use of volumetric flow meter for bunker delivery.

Users of the standard include oil majors, bunker suppliers, bunker craft operators, tanker owners, shipowners, bunker surveying companies, test laboratories, bunkering associations, maritime institutions and relevant government agencies.

Comment period: 7 January to 8 March 2022

### **Mature standard (with amendments)**

#### **6. Specification for laundry detergent powder for household use in manual washing (SS 231:2013)**

This standard covers the requirements and methods of sampling and testing for synthetic powder detergents for household washing of laundry by hand.

This standard will be confirmed with an amendment to update the requirements of detergent powders in Table 1, to align with available products in the market. Annexes A, D, E and F, which are originally normative in nature, will now be informative annexes.

It is also proposed to classify SS 231 as a mature standard as there are no further foreseeable changes to the standard. Hence, it will not be reviewed until a request is put forth to do so.

Users of the standard include detergent powder manufacturers, distributors, suppliers, fast-moving consumer goods and specialty chemical industries, associations, academia, research institutions and relevant government agencies.

([Click here](#) to download the amendment.)

Comment period: 7 January to 8 March 2022

### **(III) Quality and Safety**

#### **New**

## **7. Specification for ammonia refrigeration system in cold chain for food businesses**

### **Part 1: Design, installation and commissioning**

This standard provides the specification for safe design, installation and commissioning of an ammonia refrigeration system.

### **Part 2: Operation, inspection, servicing and maintenance**

This standard provides the specification for operation, inspection, servicing and maintenance of an ammonia refrigeration system.

### **Part 3: Emergency response plan and recovery process**

This standard provides general guidance in the event of an emergency such as an ammonia leak accident. This includes an overview of the preparation, response and recovery from an emergency and the procedure for handling food products stored on site.

Potential users of the series on ammonia refrigeration include manufacturers, cold store and logistics companies, suppliers of ammonia refrigeration systems as well as testing and inspection bodies.

Comment period: 24 January to 25 March 2022

## **8. Security and resilience – Emergency management – Guidelines for incident management (Identical adoption of ISO 22320:2018)**

This standard provides guidelines for incident management, including:

- principles that communicate the value and explain the purpose of incident management;
- basic components of incident management including process and structure, which focus on roles and responsibilities, tasks and management of resources; and
- working together through joint direction and cooperation.

This standard is applicable to any organisation involved in responding to incidents of any type and scale. It is also applicable to any organisation with one organisational structure, as well as for two or more organisations that choose to work together while continuing to use their own organisational structure or to use a combined organisational structure.

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

Comment period: 7 January to 8 March 2022

**9. Occupational health and safety management – Psychological health and safety at work – Guidelines for managing psychosocial risks (Identical adoption of ISO 45003:2021)**

This standard provides guidelines for managing psychosocial risk within an occupational health and safety (OH&S) management system based on ISO 45001, “Occupational health and safety management systems – Requirements with guidance for use”. It enables organisations to prevent work-related injury and ill health of their workers and other interested parties, and to promote well-being at work.

It is applicable to organisations of all sizes and in all sectors, for the development, implementation, maintenance and continual improvement of healthy and safe workplaces.,

Comment period: 7 January to 8 March 2022

**Revision**

**10. Code of practice for selection, use and maintenance of respiratory protective devices (Revision of SS 548:2009)**

This standard covers the selection, use, and maintenance of respirators and contains recommendations for establishing a respiratory protection programme. It also addresses the use of respirators to protect persons against the inhalation of contaminants and oxygen-deficient atmospheres in the workplace.

This revision provides additional information and clarification on the use of respiratory protective devices in healthcare against biohazards. The components of a respiratory protection programme have been further defined to align with global standards and local industry practices. More information on fit test operator competency checklist, types and selection of fit test methods, medical evaluation for respirator use, as well as proper selection, use and maintenance of respiratory protective devices have also been included.

Users of the standard include those responsible for health and safety in the workplace, suppliers, buyers, manufacturers, service providers, end users, training providers and relevant government agencies.

Comment period: 24 January to 25 March 2022

**Withdrawal**

**11. Occupational safety and health (OSH) management systems**

**Part 1: Requirements (SS 506-1:2009)**

**Part 2: Guidelines for the implementation of SS 506 : Part 1 : 2009 (SS 506-2:2009)**

These two standards are recommended for withdrawal as:

- OHSAS 18001, “Occupational health and safety management systems – Requirements” has been replaced by ISO 45001:2018; and
- OHSAS 18002, “Occupational health and safety management systems – Guidelines for the implementation of OHSAS 18001:2007” will be replaced by ISO 45002, “Occupational health and safety management systems – General guidelines for the implementation of ISO 45001:2018” when it is published at a later stage.

NOTE – In early 2018, it was announced that ISO 45001 would replace OHSAS 18001 and organisations already certified to OHSAS 18001 would have a three-year migration period, from March 2018 to March 2021, to comply with the new ISO 45001 standard. Due to the COVID-19 outbreak, the transition period for migrating accredited certifications was extended to 30 September 2021.

Comment period: 7 January to 8 March 2022

Copies of the drafts and standards are available at:

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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 Work Item Proposals**

### **B.1 Proposal for New Work Items**

#### **(I) Quality and Safety**

#### **1. Occupational health and safety management systems – General guidelines for the implementation of ISO 45001:2018** (Identical adoption of upcoming ISO 45002)

This standard provides guidance on the establishment, implementation, maintenance and continual improvement of an OH&S management system that can help organisations conform to ISO 45001:2018.

It is applicable to organisations of all sizes and in all sectors, for the development, implementation, maintenance and continual improvement of healthy and safe workplaces.

NOTE – The document is currently under development by ISO and is at the Draft International Standard (DIS) stage. It is projected to be published in August 2022.

#### **2. Occupational health and safety management – Guidelines on performance evaluation** (Identical adoption of upcoming ISO 45004)

This standard provides guidance on how to monitor, measure, analyse, evaluate and continually improve OH&S performance and the OH&S management system effectively in an organisation.

It is applicable to all organisations regardless of type, size, risk profile or location and can be used to support occupational health and safety management systems, including those based on ISO 45001.

This standard incorporates ways to:

- measure OH&S performance at different levels of the organisation;
- monitor, measure, analyse and evaluate the performance of the overall OH&S management system and each of its element;
- select and develop performance evaluation indicators;
- link OH&S performance evaluation to planning and setting improvement objectives and sustainability of resources;
- promote continual improvement of health, safety and well-being at work; and
- consider unintended consequences or limitations of KPIs (i.e. under reporting).

NOTE – The document is currently under development by ISO and is at the Working Draft (WD) stage. It is projected to be published in January 2024.

**3. Occupational health and safety management – Preventing and managing infectious diseases – Guidelines for organisations** (Identical adoption of upcoming ISO 45006)

This standard provides guidelines on how organisations can prevent exposure to infectious agents and manage the risks associated with infectious diseases that:

- may cause severe ill health or death and can impact the safety and well-being of workers and relevant interested parties; and
- present a lower health risk yet can have a significant impact on the organisation, its workers and relevant interested parties.

It is applicable to organisations of all sizes and sectors.

NOTE 1 – The document is currently under development by ISO and is at the WD stage. It is projected to be published in October 2023.

NOTE 2 – Applicable legislation and guidance is provided by government, regulators and health authorities for specific infection controls for the protection of workers in clinical settings and other healthcare settings and for work activities on or with pathogenic microorganisms.

**4. Technical Reference – Occupational health and safety management – General guidelines for safe working during the COVID-19 pandemic** (Identical adoption of ISO/PAS 45005:2020)

This standard gives guidelines for organisations on how to manage the risks arising from COVID-19 to protect work-related health, safety and well-being.

It is applicable to organisations of all sizes and sectors, including those that:

- have been operating throughout the pandemic;
- are resuming or planning to resume operations following full or partial closure;
- are re-occupying workplaces that have been fully or partially closed; and
- are new and planning to operate for the first time.

This standard also provides guidance relating to the protection of workers of all types (e.g. workers employed by the organisation, workers of external providers, contractors, self-employed individuals, agency workers, older workers, workers with a disability and first responders), and other relevant interested parties (e.g. visitors to a workplace, including members of the public).

**5. Quality requirements for fusion welding of metallic materials – Part 6: Guidelines on implementing ISO 3834** (Identical adoption of upcoming ISO/TR 3834-6)

This standard provides guidelines for the implementation of requirements given in the other parts of ISO 3834, and is intended to help manufacturers and users select that part of SS ISO 3834 appropriate to their needs. It is expected that they will already be familiar with SS ISO 3834 as a whole.

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

NOTE 1 – The document is currently under development by ISO and is at the Community Draft (CD) stage. It is projected to be published in March 2023.

NOTE 2 – Parts 2, 3 and 4 of this series on fusion welding have already been adopted as Singapore Standards and are now published.

NOTE 3 – Part 1 and 5 of this series on fusion welding are undergoing public comment from 3 December 2021 to 4 February 2022.

Comment period for the above quality and safety standards: 7 January to 8 February 2022

(II) **Services**

**6. Geragogy guidelines for senior learners**

This standard provides guidelines on the following key aspects:

- Understanding the needs and challenges of seniors;
- Teaching methodologies; and
- Traits of an effective trainer.

Potential users of the standard include training partners of National Silver Academy, Ministry of Health, Council for Third Age and Singapore Retailers Association.

Comment period: 7 January to 8 February 2022

**B.2 Proposal for the Review of Singapore Standards**

**Quality and Safety**

**Occupational health and safety management systems – Requirements with guidance for use** (Revision of SS ISO 45001:2018) (Identical adoption of upcoming ISO 45001)

This standard specifies requirements for an OH&S management system, and gives guidance for its use, to enable organisations to provide safe and healthy workplaces by preventing work-related injury and ill health, as well as by proactively improving its OH&S performance.

This standard is applicable to any organisation that wishes to establish, implement and maintain an OH&S management system to improve occupational health and safety, eliminate hazards and minimise OH&S risks (including system deficiencies), take advantage of OH&S opportunities, and address OH&S management system nonconformities associated with its activities.

Users of the standard include testing, inspection and certification bodies, industry associations, professional institutions, academic institutions, training providers, suppliers, buyers, manufacturers, service providers, end users and relevant government agencies.

Comment period: 7 January to 8 February 2022

Submit Comments



## 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](#).