To:

Chairmen / Presidents of Associations

Executive Directors of Association

On a monthly basis, Enterprise Singapore invites comments on Singapore Standards from the public to seek feedback on the development of Singapore Standards. These Singapore Standards are based on an open system and the principle of consensus which are in accordance with the WTO & international standardisation requirements.

We wish to invite comments from your association on the standards that are relevant to you:

Title of Standard	**Type**	**Closing date**
Design for safety and maintainability of skyrise greenery	Commencement of new work	7 December 2026
Code of practice for installation, operation, maintenance, performance and construction requirements of mains failure standby generating systems (Revision of SS 535:2018)	Revision	7 January 2027
Prerequisite programmes on food safety - Part 1: Food Manufacturing (Identical adoption of ISO 22002-1:2025)	New	7 January 2027
Prerequisite programmes on food safety - Part 2: Catering (Identical adoption of ISO 22002-2:2025)	New	7 January 2027
Prerequisite programmes on food safety - Part 4: Food packaging manufacturing (Identical adoption of ISO 22002-4:2025)	New	7 January 2027
Prerequisite programmes on food safety - Part 5: Transport and storage (Identical adoption of ISO 22002-5:2025)	New	7 January 2027
Prerequisite programmes on food safety - Part 6: Feed and animal food production (Identical adoption of ISO 22002-6:2025)	New	7 January 2027
Prerequisite programmes on food safety - Part 7: Retail and wholesale (Identical adoption of ISO 22002-7:2025)	New	7 January 2027
Prerequisite programmes on food safety - Part 100: Requirements for the food, feed and packaging supply chain (Identical adoption of ISO 22002-100:2025)	New	7 January 2027
Prerequisite programmes on food safety - Prerequisite programmes on food safety – Part 3: Farming (Identical adoption of ISO TS 22002-3:2011)	New	7 December 2026

Hazard analysis and critical control point (HACCP) system for the food industry –Requirements with guidance for use (Revision of SS 444:2018)	Revision	7 January 2027
Code of practice for handling and preparation of ready-to-eat raw fish (Review of TR 79: 2020)	Revision	7 January 2027
Operational technology security framework: Reference architecture, threats and controls	Commencement of new work	7 December 2026
Additive manufacturing – Qualification principles – Method for digital qualification of metal 3D printed components using digital twins	Commencement of new work	7 December 2026
Code of practice for the safe operations for gymnasiums and fitness studios	New	7 January 2027
Conformity assessment – Guidelines for the use of remote auditing methods in auditing management systems (Identical adoption of ISO/IEC TS 17012:2024)	Commencement of new work	7 December 2026
Code of practice for confined spaces (SS 568:2011)	Review	7 December 2026
Railway applications – Cybersecurity (Adoption of IEC 63452)	Commencement of new work	7 December 2026
Mass rapid transit and light rail transit – Operations and maintenance guide for passenger lifts in stations (TR 107:2022)	Review	7 December 2026

*NOTE – Details of the Singapore Standards for public comment can be found in the attached notice. Users can login at the Singapore Standards eShop and view the drafts and standards during the public comment period.

Your comments will be taken into consideration before the standards are finalised.

We would appreciate it if you could inform your staff and members about the public comment.

You may wish to sign up for e-alerts (click here) to receive notifications on standards for public comment and/or information on new / revised standards and sale promotions from our appointed vendor, TOPPAN Ecquaria.

Thank you and have a great day!

On behalf of:

Chiu Ya Ting (Ms)

Deputy Director (Manufacturing and Standards Publication)

Standards Division

Click here to get the public comment form. Comments will only be accepted via this form.

ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS ON SINGAPORE STANDARDS – 6 NOVEMBER 2026

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, Technical References and Workshop Agreements. 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

Newly developed and revised Singapore Standards (SSs), and the outcomes of the reviews of existing SSs are available to the public to gather feedback on their contents and status prior to their completion.

Members of the public are invited to comment on the following Singapore Standard(s):

Electrical and Electronic – mains failure standby generating systems

Food – food safety (7 standards), HACCP system, ready-to-eat raw fish

Safety and Quality – gymnasiums and fitness studios

Closing date for comments: **7 January 2027**

For more information on viewing the document(s), click here.

Please submit comments to: standards@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 pre-standards like Technical References and Workshop Agreements. The NWIs are work-in-progress, and the drafts are not available at the public comment stage.

Members of the public are invited to comment on the scope of the following NWI(s):

Building and Construction – skyrise greenery

Food – food safety

Information Technology – operational technology security

Manufacturing – additive manufacturing

Safety and Quality – conformity assessment

Transport – railway cybersecurity

Closing date for comments: **7 December 2026**

B.2 Proposal for the Review of Singapore Standards

Published Singapore Standards, Technical References and Workshop Agreements 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). The reviews are ongoing, and the new versions/drafts are not available at this juncture. Users can refer to the current standards to provide feedback. Click here to view or purchase the standards.

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

Safety and Quality – confined spaces

Transport – passenger lifts in stations

Closing date for comments: **7 December 2026**

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 standards@enterprisesg.gov.sg.

A) Notification of Draft Singapore Standard for Publication

(I) Electrical and Electronic

Revised

1. Code of practice for installation, operation, maintenance, performance and construction requirements of mains failure standby generating systems (Revision of SS 535:2018)

This standard applies to the performance and construction requirements, design, installation, operation, testing, inspection and maintenance of mains failure standby generating systems for buildings and where applicable to mobile generating systems. It does not apply to installations for marine/offshore or base load use.

Key changes in this revision include alignment with local practices, adjustments to requirements and recommendations, and updates to relevant normative references and the bibliography.

Users of the standard include manufacturers, suppliers, architects, engineers, consultants, building owners and relevant government agencies.

(II) Food

New

2. Prerequisite programmes on food safety

Part 1: Food Manufacturing (Identical adoption of ISO 22002-1:2025)

This standard specifies, in conjunction with ISO 22002-100, requirements for establishing, implementing and maintaining prerequisite programmes (PRPs) to control food safety hazards in food manufacturing.

Part 2: Catering (Identical adoption of ISO 22002-2:2025)

This standard specifies, in conjunction with ISO 22002-100, requirements for establishing, implementing and maintaining PRPs to control food safety hazards in catering services for direct consumer consumption or take-away. This includes minor processing activities at retail operations (e.g. slicing, portioning, reheating).

This standard does not apply to off-site catering kitchens or industrial kitchens that produce food not offered for immediate consumption.

Part 4: Food packaging manufacturing (Identical adoption of ISO 22002-4:2025)

This standard specifies, in conjunction with ISO 22002-100, requirements for establishing, implementing and maintaining PRPs to control food safety hazards in the manufacture of food and feed packaging.

Part 5: Transport and storage (Identical adoption of ISO 22002-5:2025)

This standard specifies, in conjunction with ISO 22002-100, requirements for establishing, implementing and maintaining PRPs to control food safety hazards in transport and storage in the food chain, including cross-docking and transshipment activities.

This standard does not apply to live animals except when intended for direct consumption (e.g. molluscs, crustaceans and live fish).

Part 6: Feed and animal food production (Identical adoption of ISO 22002-6:2025)

This standard specifies, in conjunction with ISO 22002-100, requirements for establishing, implementing and maintaining PRPs to control feed safety hazards in feed and animal food, and materials intended for use in the production of feed and animal food. Feed safety hazards in this context relate to attributes that have a potential to affect adversely animal and/or human health.

Part 7: Retail and wholesale (Identical adoption of ISO 22002-7:2025)

This standard specifies requirements for establishing, implementing and maintaining PRPs to control food safety hazards in the retail part of the food chain, including wholesalers, food banks and other organisations.

Part 100: Requirements for the food, feed and packaging supply chain (Identical adoption of ISO 22002-100:2025)

This standard specifies the common requirements for establishing, implementing and maintaining PRPs throughout the food, feed and packaging supply chain to assist in controlling food safety hazards with a food safety management system (FSMS).

Users of the standards on PRPs include food and feed manufacturers, food and feed packaging manufacturers, food wholesalers, food suppliers, food retailers, food banks, food redistribution organisations, packaging suppliers, animal (livestock, poultry and aquaculture) feed producers, premix and feed additive producers, logistics operators, warehousing and storage providers, distribution centres, cold stores, food and feed businesses involved in transport and storage, hotels, caterers, TIC bodies, industry associations, service providers (e.g. consultancies, training providers and third-party logistic providers), IHLs and relevant government agencies.

Revised

3. **Hazard analysis and critical control point (HACCP) system for the food industry – Requirements with guidance for use** (Revision of SS 444:2018)

This standard specifies requirements for use in auditing operational HACCP-based systems that ensure the safety of foodstuff during production, preparation, processing, manufacturing, packaging, storage, transportation, distribution, food services, retailing, and any other sector related to the food chain.

It applies to all food business operators that wish to design and implement an effective HACCP management system, regardless of type, size and product.

The key changes to this revision include updates to align with the latest version of the Codex Alimentarius General Principles of Food Hygiene (CXC 1-1969, 2023), including an updated decision tree for critical control point determination. The revision also introduces a risk

assessment matrix for hazard significance determination to support the application of the HACCP system.

Users of the standard include food manufacturers, food suppliers, food retailers, hotels, caterers, food service providers (e.g. consultancies and training providers), TIC bodies, IHLs and relevant government agencies.

4. Code of practice for handling and preparation of ready-to-eat raw fish (Review of TR 79: 2020)

The standard specifies requirements and recommendations for the handling of ready-to-eat raw fish by processors, during transportation and at retail food establishments. It also covers control measures that can minimise pathogenic bacterial and parasitic contamination to mitigate the risk of food-borne illnesses.

The key changes in this review are:

– refinement of the scope to focus on local processors, transportation and handling, and retail establishments;
– updates to terminology, product temperature and microbiological limits;
– inclusion of documentation and record-retention requirements to support traceability; and
– inclusion of a supplier declaration template to provide assurance on parasite treatment and microbiological compliance.

This standard is reviewed with the intention to elevate TR 79 into a Singapore Standard.

Users of the standard include food manufacturers, food suppliers, food retailers, hotels, caterers, food service providers (e.g. consultancies), industry associations, IHLs and relevant government agencies.

(III) Safety and Quality

New

5. Code of practice for the safe operations for gymnasiums and fitness studios

This standard covers the safety of operations for gymnasiums and fitness studios, setting out requirements and recommendations in areas such as equipment and facilities management. It also draws references from relevant frameworks to promote safety and professionalism of the staff and fitness instructors, defining clear roles and responsibilities of operators, instructors and users.

Users of the standard include operators, industry associations, professional institutions, IHLs and relevant government agencies.

Viewing of drafts from Singapore Standards eShop
Login to Singapore Standards eShop at: www.singaporestandardseshop.sg
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NOTE – The viewing period of the draft and standard will expire on the closing of the public comment period and will no longer be available after this date.

B) Notification of the Work Item Proposals

B.1 Proposal for New Work Items

(I) Building and Construction

1. Design for safety and maintainability of skyrise greenery

This standard sets out safety requirements for the design, installation and maintenance of skyrise greenery, including rooftop greenery, vertical greenery, and the planting of trees, palms and tall shrubs on buildings. It is intended to facilitate safe installation and maintenance activities through the adoption of design for safety principles and good industry practices

Users of the standard include landscape architects, contractors, developers, service buyers, IHLs and relevant government agencies.

(II) Food

2. Prerequisite programmes on food safety – Part 3: Farming (Identical adoption of ISO TS 22002-3:2011)

This standard specifies requirements and guidelines for the design, implementation, and documentation of PRPs that maintain a hygienic environment and assist in controlling food safety hazards in the food chain.

This standard is applicable to the farming of crops (e.g. cereals, fruits, vegetables), living farm animals (e.g. cattle, poultry, pigs, fish) and the handling of their products (e.g. milk, eggs). All operations related to farming are included in the scope (e.g. sorting, cleaning, packing unprocessed products, on-farm feed manufacturing, transport within the farm). This standard focuses on the requirements for the management of PRPs, while the design of the exact PRPs is left to the user.

Users of the standard include crop and livestock farms, aquaculture farms, farm operators and producers, industry associations, TIC bodies, service providers (e.g. consultancies and training providers), IHLs and relevant government agencies.

(III) Information Technology

3. Operational technology security framework: Reference architecture, threats and controls

This Technical Reference (TR) provides a national framework of security guidelines for safeguarding operational technology (OT) systems across Singapore. It introduces a 7-layer OT reference architecture (OT7) that systematically maps security controls to OT system functions, threat scenarios and lifecycle stages. The TR covers various distinct OT use cases, such as autonomous and remotely operated systems, building management systems, navigation systems, traffic management systems, smart monitoring systems, production monitoring systems and industrial control systems.

It does not cover the following areas:

- Information technology (IT) systems and enterprise network security, which are covered by separate IT security standards;
- sector-specific regulatory requirements, which remain the purview of individual sector regulators; and
- product-level certification or conformity assessment schemes for OT equipment.

Users of the TR include system owners, system integrators, OT engineers, cybersecurity practitioners, consultants and manufacturers involved in the design, deployment, operation, and maintenance of OT systems across government agencies and industry.

(IV) Manufacturing

4. Additive manufacturing – Qualification principles – Method for digital qualification of metal 3D printed components using digital twins

This TR aims to establish a methodology for the digital qualification of metal 3D printed components using digital twins, including physics-based models, artificial intelligence models or a combination of both.

The TR covers the following key areas:

- identification of digital twin software architecture suitable for model-based qualification and certification;
- identification of physical quantities and material properties required to qualify metal 3D printed components, including defects, microstructure and mechanical properties; and
- establishment of acceptable confidence ranges and error estimates for digital twin predictions compared with experimental testing, including verification and validation requirements acceptable to certification bodies.

Users of the TR include additive manufacturing companies, service providers, TIC bodies, industry associations, IHLs and relevant government agencies.

(V) Safety and Quality

5. Conformity assessment – Guidelines for the use of remote auditing methods in auditing management systems (Identical adoption of ISO/IEC TS 17012:2024)

This standard provides guidance on the use of remote auditing methods in auditing management systems. It is applicable to all organizations that plan and conduct all kinds of internal or external audits (i.e. first-party, second-party and third-party audits) of management systems.

This standard supports the general principles of auditing given in SS ISO 19011, “Guidelines for auditing management systems”, and provides further guidance on specific conditions, possibilities and limitations for implementing remote auditing methods.

The use of remote auditing methods for auditing management systems is not intended to replace on-site audit methods. Instead, remote auditing methods are intended to serve as a tool to effectively and efficiently conduct the audit. It can be used for other types of audits and assessments.

Users of the standard include accreditation bodies, TIC bodies, scheme owners, suppliers and relevant government agencies.

(VI) Transport

6. Railway applications – Cybersecurity (Adoption of IEC 63452)

This standard provides a consistent approach to manage cybersecurity of railway applications in a railway system. It is applicable across railway networks, urban transport networks, and magnetic levitated transport systems. It includes rolling stock, fixed installations, and operational management systems for railway operation.

This standard adapts the relevant parts of the IEC 62443, “Industrial communication networks – Network and system security”, for application in the railway domain, detailing the cybersecurity management, zoning, risk management, supply chain management, cybersecurity requirements, cybersecurity assurance, as well as operational, maintenance, and decommissioning requirements.

This standard does not provide safety requirements or constraints on the safety case for railway applications.

IEC 63452 is currently at the Final Draft International Standard (FDIS) stage and is expected to be published in April 2027.

Users of the standard include rail transport operators, asset owners, TIC bodies, contractors, manufacturers, suppliers, IHLs and relevant government agencies.

B.2 Proposal for the Review of Singapore Standards

(I) Safety and Quality

1. Code of practice for confined spaces (SS 568:2011)

This standard provides good practice on the safety and health control measures relating to entry into and working in confined spaces.

This standard is reviewed with the intention of aligning with current industry advancements such as confined space-related technology, equipment and management methods.

Users of the standard include suppliers, engineers, confined-space users, training institutions and relevant government agencies.

(II) Transport

2. Mass rapid transit and light rail transit – Operations and maintenance guide for passenger lifts in stations (TR 107:2022)

This standard specifies terminology, operational considerations and maintenance considerations for passenger lifts in stations.

The standard is reviewed with the intention of incorporating industry feedback and covering identified operational, accessibility and maintenance needs. The review also aims to update and refine the structure and applicability of the standard to facilitate its practical implementation by the industry.

Users of the standard include rail transport operators, lift manufacturers, lift suppliers, IHLs and relevant government agencies.

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 Singapore Standards eShop 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 public comment form provided by Enterprise Singapore?

The public comment form enables 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.