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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS ON SINGAPORE STANDARDS – 6 MARCH 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):

Manufacturing – [industrial automation and control systems](#)

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

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 – [geotechnical investigation and testing](#) (12 standards)

Manufacturing – [industrial automation and control systems](#)

Closing date for comments: **7 April 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Technical References and Workshop Agreements are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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:

Transportation– [autonomous vehicles](#) (2 standards), [asset management](#) (2 standards)

Closing date for comments: **7 April 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) Manufacturing

New

1. Security for industrial automation and control systems – Part 3-2: Security risk assessment for system design (Identical adoption of IEC 62443-3-2:2020)

This standard establishes requirements for:

- defining a system under consideration (SUC) for an industrial automation and control system (IACS);
- partitioning the SUC into zones and conduits;
- assessing risk for each zone and conduit;
- establishing the target security level (SL-T) for each zone and conduit; and
- documenting the security requirements.

Users of the standards include the asset owners, system integrators, product suppliers, service providers and relevant government agencies.

Copies of the draft are available at:

Viewing from Singapore Standards eShop

Login to Singapore Standards eShop at: www.singaporestandardseshop.sg

[Login ► Go to Standards (3 bars for mobile users) ► Singapore Standards ► View Singapore Standards ► Under Product Type select 'All' ► Under Product Status select 'Draft' ► Search for the draft ► Add to shopping cart and check out ► Download draft.

Viewing Singapore Standards from Public Libraries

Singapore Standards are viewable multimedia stations at all Public Libraries via NLB databases "Singapore Standards Collection" at <https://reference.nlb.gov.sg/guides/sci-tech/tech/standards-and-references/> Please refer to <https://www.nlb.gov.sg/main/visit-us> for address and viewing hours.

Purchase of Singapore Standards

TOPPAN NEXT Pte. Ltd.

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Email: singaporestandardseshop@toppannext.com

Operating Hours:

Mon to Fri: 9.30 am to 6.00 pm

Closed on Saturdays, Sundays and Public Holidays

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

Building and Construction

1. Geotechnical investigation and testing – Laboratory testing of soil

Part 1: Geohydraulic testing – General rules (Adoption of ISO 22282-1:2012)

Part 2: Geohydraulic testing – Water permeability tests in a borehole using open systems (Adoption of ISO 22282-2:2012)

Part 3: Geohydraulic testing – Water pressure tests in rock (Adoption of ISO 22282-3:2012)

Part 4: Geohydraulic testing – Pumping tests (Adoption of ISO 22282-4:2021)

Part 6: Geohydraulic testing – Water permeability tests in a borehole using closed systems (Adoption of ISO 22282-6:2012)

The standards specify methods for geohydraulic testing carried out as part of geotechnical investigations in soil and rock. They establish general principles for geohydraulic testing and provides standardised procedures for determining groundwater conditions and permeability through pumping tests, water pressure tests in rock, and water permeability tests in boreholes using open and closed systems.

2. Geotechnical investigation and testing – Laboratory testing of soil – Part 1: Sampling methods and groundwater measurements – Technical principles for the sampling of soil, rock and groundwater (Adoption of ISO 22475:2021)

This standard outlines principles and requirements for the sampling of soil, rock and groundwater carried out as part of geotechnical investigation and testing programmes.

3. Geotechnical investigation and testing – Laboratory testing of soil

Part 1: Field testing – Electrical cone and piezocone penetration test (Adoption of ISO 22476-1:2022)

Part 3: Field testing – Standard penetration test (Adoption of ISO 22476-3:2005+A1:2011)

Part 4: Field testing – Prebored pressuremeter test by Ménard procedure (Adoption of ISO 22476-4:2021)

Part 5: Field testing – Prebored pressuremeter test (Adoption of ISO 22476-5:2023)

Part 9: Field testing – Field vane test (FVT and FVT-F) (Adoption of ISO 22476-9:2020)

Part 11: Field testing – Flat dilatometer test (Adoption of ISO 22476-11:2017)

The standards outline methods for field testing carried out during geotechnical investigations to determine the physical and mechanical properties of soil and rock. They provide standardised procedures for field tests such as penetration tests, pressuremeter tests, dilatometer tests, vane tests, and other in-situ testing methods used to characterise ground conditions and derive geotechnical parameters.

Users of the standards include construction companies, consultants, testing, inspection and certification bodies and relevant government agencies.

Manufacturing

4. Security for industrial automation and control systems – Part 6-2: Security evaluation methodology for IEC 62443-4-2 (Identical adoption of IEC TS 62443-6-2:2025)

This standard specifies the evaluation methodology to support achieving repeatable and reproducible evaluation results for IACS components under evaluation against IEC 62443-4-2, “Security for industrial automation and control systems – Part 4-2: Technical security requirements for IACS components”, requirements.

Users of the standard include vendors, asset owners, certification bodies and other third-party evaluators.

B.2 Proposal for the Review of Singapore Standards

Transportation

1. Autonomous vehicles

Part 1: Basic behaviour (TR 68-1:2021)

This standard specifies the conduct of autonomous driving, interpretation of road signs such as markings and traffic signals, management of non-transferable rules, interface functions and communication flows between the autonomous vehicles (AV) as well as occupants or any external stakeholders.

Part 3: Cybersecurity principles and assessment framework (TR 68-3:2021)

This standard specifies the technical provisions for cybersecurity assessment framework of AV deployed on public roads in Singapore. This includes the methods of identifying potential attack surfaces, threat scenarios and framework for AV security testing.

These standards on autonomous vehicles are reviewed with the intention to include the scope of AV operating on public paths such as pedestrian or shared paths and teleoperation as well as remote assistance between the AV and operator. The review will also ensure continued alignment with current industry practices and technological advancements.

Users of the standards include AV manufacturers and suppliers, operators, system integrators and providers, institutes of higher learning and relevant government agencies.

2. Specification of key performance indicators for asset management in the Singapore railway industry (TR 95:2021)

This standard specifies the principles and methodologies of defining and measuring asset and asset management performance within the context of the Singapore railway industry. This standard describes the key performance indicators commonly used in systems engineering and dependability management in operations and maintenance life cycle phases of the railway system.

3. Asset condition assessment approach in the Singapore railway industry – Permanent Way (TR 96:2021)

This standard applies to the condition assessment of Permanent Way assets for the Singapore railway industry. This standard describes the way in which the asset condition assessment is performed for Permanent Way assets, covering the following systems: rail system, third rail system, turnout system, track furniture and track foundation.

These asset management standards are being reviewed with the intention to incorporate industry feedback, advancements in asset management practices and standards, and harmonised terminology. The review also aims to refine the structure and usability of the standards to facilitate implementation.

Users of these standards include rail transport operators, contractors, manufacturers and suppliers, institutes of higher learning 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 TOPPAN NEXT 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 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](#).