

***GUIDE TO THE
MALAYSIAN
STANDARDS SYSTEM***

Information provided is as of December 2009

Guide to the Malaysian Standards System

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List of abbreviations

ACB	Accreditation of Certification Bodies
ACCSQ	ASEAN Consultative Committee for Standards and Quality
APEC	Asia Pacific Economic Cooperation
APEC-SCSC	APEC Sub Committee on Standards and Quality
APLAC	Asia Pacific Laboratory Accreditation Cooperation
ASEAN	Association of South East Asia Nations
ASEM/TFPA	Asia Europe Meeting/Trade Facilitation Action Plan
CASCO	Committee on Conformity Assessment
CISPR	International Special Committee on Radio Interference
COPOLCO	Committee on Consumer Policy
CTI	Committee on Trade and Investment
DEVCO	Committee on Developing Countries Matters
DMS	Draft Malaysian Standard
FDMS	Final Draft Malaysian Standard
IAF	International Accreditation Forum
IEC	International Electrotechnical Committee
ILAC	International Laboratory Accreditation Cooperation
ISC	Industry Standards Committee
ISO	International Organisation for Standardisation
JTC	Joint Technical Committee
MIBAS	Malaysia Inspection Bodies Accreditation Scheme
MOSTI	Ministry of Science, Technology and Innovation
MSAC	Malaysian Standards and Accreditation Council
MyENC	National IEC Committee
MyNAC	National Accreditation Committee
MyNMTAC	National Medical Testing Accreditation Committee
MyNSC	National Standards Committee
NP	New Project/New Work Item Proposal
PAC	Pacific Accreditation Forum
PASC	Pacific Area Standard Congress
SAMM	Laboratory Accreditation Scheme of Malaysia
SC	Sub-committee
SCA	Trade Facilitation Action Plan on Standards and Conformance
SIRIM	Standards and Industrial Research Institute of Malaysia
SIRIM QAS	SIRIM Quality Assurance Services
SWO	Standards Writing Organisations
TBT	Technical Barriers to Trade (Agreement on)
TC	Technical Committee
WG	Working Group
WTO	World Trade Organisation

1. Foreword from the Director General of the Department of Standards Malaysia

The publication of the Guide to the Malaysian Standards System aims at providing the standards development committee members and the public at large on the overview and insight of the overall infrastructure of the Malaysian Standards System and, the processes and operational policies for Malaysian Standards development. The guide is also intended to make available information on the functions, composition and scopes of standards development committees. This publication is the first revision of the previous edition issued in January 2003.

Since then there were several significant developments that took place within the Malaysian Standards System Infrastructure. The on-going review of the infrastructure are among the efforts taken by STANDARDS MALAYSIA to further enhance the delivery of the Malaysian Standards System while at the same time react to latest developments at the regional and international levels. Among the significant changes that took place include the following:

- the establishment of ISCs such as ISC I (Halal Standards), ISC O (Organisational Management), ISC Q (Textiles and Apparels), ISC R (Medical Devices and Facilities for Healthcare) and ISC T (Tourism, Exhibition and Hospitality Services);
- the dissolution of ISC C (Consumer Products, Personal Safety and Services); and
- The division of the then ISC E on Electrotechnical into ISC E - Electrotechnical 1 on generation, transmission and distribution of electrical power and ISC S - Electrotechnical 2 on electrical equipment and accessories, and the then ISC A on Food and Agricultural to ISC A on Agriculture and Agricultural Products and ISC U on Food and Food Products.

This guide also provides an update on Malaysia's participation in international standardization namely in ISO and IEC committees. It is interesting to note that the trend in international standardisation has changed, from formerly focusing on product specific standards to new areas such as social responsibility, services as well as the latest emerging technologies. Malaysia responds to this trend by actively participating in these new areas of interests.

Malaysian Standards development is a transparent and consensus based process, relying on the contributions, expertise and the participation of all the SDC members who work together to produce a Malaysian Standard that is practical, timely and relevant. Due to the 'independent' nature of Malaysian Standards and the Malaysian Standards System Structure, it is imperative for the Malaysian Standards development activities to be conducted in an ethical manner so that the confidence of all parties involved in the standardisation process and the users of the Malaysian Standards is maintained.

For this purpose, a guide, 'Code of Ethics for Members of the Malaysian Standards System' has been developed. It is hoped that this document will be used by members of the Malaysian Standards System as guidance in their standardization work.

With best wishes for the future.

Pn. Fadilah Baharin

2. Message from the Chairman of the Malaysian Standards and Accreditation Council

I wish to congratulate the Department of Standards Malaysia (STANDARDS MALAYSIA) for taking the initiative to revise this document: Guide to the Malaysian Standards System. I believe this document will go a long way to help promote and disseminate information on the Malaysian standardisation infrastructure and standards development system and processes.

STANDARDS MALAYSIA, as the national standards body, acts as the focal point for Malaysian Standards development activities and represents Malaysia in regional and international activities. STANDARDS MALAYSIA is the National Member Body for both the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

STANDARDS MALAYSIA, with the support of SIRIM Berhad as the national standards development agency in managing the Malaysian Standards development infrastructure and our participation in the technical work in international standardization activities, is taking steps to further enhance national and international standardisation efforts for the country.

The National Standards Strategy and Action Plan (NSSAP) which was approved by the Malaysian Cabinet in 2004, was developed to further enhance Malaysia's standardisation activities. This document provides the 'blueprint' that charts the strategies and directions for the nation's standardisation activities, both at national and international levels.

The strategies that are outlined in the NSSAP are:

- Strategy 1: Wider adoption of Malaysian Standards in technical regulations
- Strategy 2: Ensuring stakeholder participation and support for standardisation at regional and international level.
- Strategy 3: Strategic involvement in regional and international standardisation activities.
- Strategy 4: Timely delivery of Malaysian Standards that meet the current and future needs of stakeholders.
- Strategy 5: Greater awareness and usage of Malaysian Standards by the government, private sectors and the consumers in procurement, trade, production, manufacturing and provision of services.

As one of the steps to encourage active participation of private sector in standardisation activities, in 2004, the Government through the Amendment to Section 34(6)(m) of *Akta Cukai Pendapatan 1967*, provides for tax deduction to be given for expenditure incurred by the private sector participation in international standardisation activities. I sincerely hope that this will encourage greater participation by the private sector in the technical work of the ISO and IEC, hence directly providing private sector input into international standardisation activities. This will not only contribute to this important work but more importantly help ensure the interests of our manufacturers, industries, consumers and the nation are taken into account and where need be, protected.

In this era of globalisation, greater awareness on standards and quality is vital. Whether we know it or not, we do derive benefits from standards. Some standards act as safety and preventive measures against injuries or death while others specify the minimum level of quality, reliability and performance that should go into goods and services that we pay for. Some ensure that products are designed to work or fit for use; others help reduce unnecessary variety in commercial products.

Standardisation has become an important determinant in decision making; to the public at large and at the individual level, to maintain our well-being; to the industry a critical business issue and to the nation as a whole to maintain our competitiveness in market place.

Finally, I would like to express my appreciation to those involved in the publication of this document and for giving me the opportunity to share my thoughts and thank all those who have contributed so much over the year in our standardisation activities.

Tan Sri Dr. Ahmad Tajuddin Ali
Chairman
Malaysian Standards and Accreditation Council

3. Overview of the Malaysian Standards and Accreditation System

The Standards of Malaysia Act 1996 (Act 549) is the law which governs matters relating to standardisation and accreditation activities in Malaysia. The Act establishes the Department of Standards Malaysia (STANDARDS MALAYSIA) as the National Standards and Accreditation Body.

The Act additionally establishes a Standards and Accreditation Council (MSAC) as the highest body to advise the Minister of Science, Technology and Innovation on standardisation and accreditation. The Council has established four advisory committees on standardisation and accreditation in order to discharge its duties and functions related to standardisation and accreditation in accordance with the provisions of the Act. The four committees are the National Standards Committee (MyNSC), the National Accreditation Committee (MyNAC), the National IEC Committee (MyENC) and the National Medical Testing Accreditation Committee (MyNMTAC).

MyNSC and MyENC have established sector based Industry Standards Committees (ISC) to oversee the technical work related to standardisation for the specific sectors.

As provided for by the Act, STANDARDS MALAYSIA has appointed SIRIM Berhad as the sole national agency to coordinate standards development activities in Malaysia and to represent Malaysia in international standardisation activities. SIRIM Berhad has in turn appointed other organisations and associations as Standards Writing Organisations (SWO) to assist in the task of developing standards for specifically defined scopes.

The organisation of the Malaysian Standards and Accreditation structure is as shown in Chart 1.

4. Organisational arrangements

4.1 Department of Standards Malaysia

The Department of Standards Malaysia (STANDARDS MALAYSIA), under the Ministry of Science, Technology and Innovation is the national standards and accreditation body in Malaysia. It was established on 28 August 1996 following the restructuring of the Malaysian standardisation system in accordance to the Standards of Malaysia Act 1996, (Act 549). STANDARDS MALAYSIA is also responsible for accreditation having and assumed responsibility for all activities previously undertaken by the Malaysian Accreditation Council.

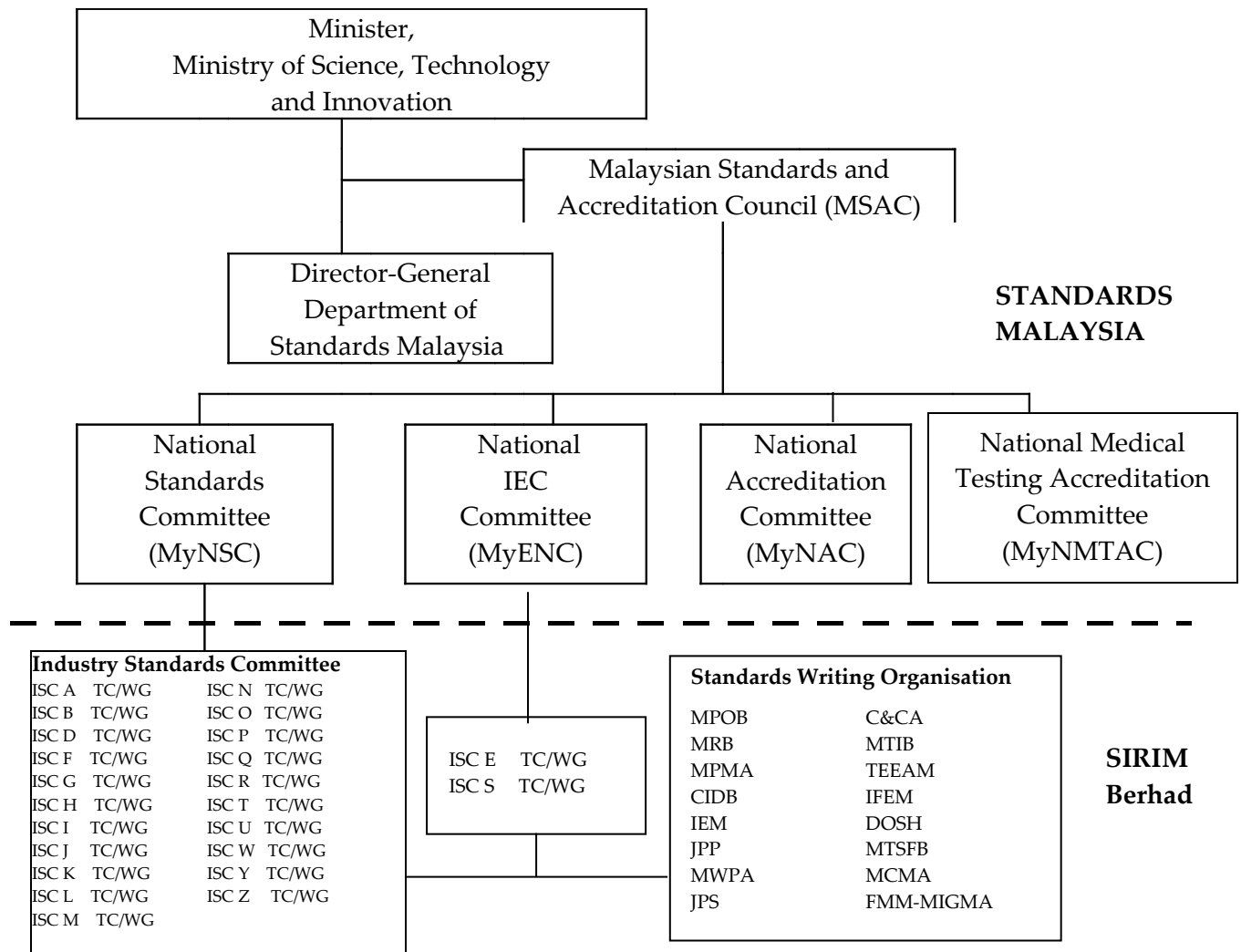


Chart 1 – Malaysian Standards and Accreditation Structure

The functions of STANDARDS MALAYSIA are to:

- a) implement policies and strategies for national standardisation;
- b) develop Malaysian Standards;
- c) recommend standards submitted by the appointed agency as Malaysian Standards;
- d) maintain an index of approved Malaysian Standards;
- e) promote the use of national standards;
- f) represent Malaysia in international and regional standardisation activities, and ensure that Malaysia's interests are represented at all levels within the regional and international standardisation organisations;
- g) promote cooperation between organisations concerned with voluntary standardisation in Malaysia and Government agencies for the purpose of achieving compatibility and maximum common usage of standards and codes; and
- h) disseminate information on standards and standardisation activities in and outside Malaysia.

As the national accreditation body, STANDARDS MALAYSIA gives official recognition in the form of accreditation to organisations with established competence to provide conformity assessment services for the certification of management systems (e.g. certification of quality management systems according to ISO 9001 and certification of environmental management systems according to ISO 14001), product certification, testing, calibration and inspection.

Currently, STANDARDS MALAYSIA operates three categories of accreditation schemes – Laboratory Accreditation Scheme of Malaysia (SAMM), Accreditation of Certification Bodies (ACB) and Malaysia Inspection Bodies Accreditation Scheme (MIBAS). The SAMM Scheme includes accreditation of both testing and calibration laboratories, while the ACB scheme offers accreditation to certification bodies operating Management System Certification and Product Certification (which include Halal products certification). MIBAS, the latest accreditation scheme launched on 20 November 2006, is a unified national inspection bodies accreditation scheme and is multi-disciplinary in its scope, and is a formal recognition of the competence of an inspection body and its inspectors. These schemes are operated in accordance with established international standards and guides.

STANDARDS MALAYSIA assures the credibility of assessment certificates issued by its accredited conformity assessment organisations through established regional and global multilateral recognition agreements. These arrangements enable recognition of certificates issued, facilitate trade and enhance the competitiveness of Malaysian goods and services in the global market.

STANDARDS MALAYSIA is a signatory to Pacific Accreditation Cooperation (PAC), International Accreditation Forum (IAF), Asia Pacific Laboratory Accreditation Cooperation (APLAC) and International Laboratory Accreditation Cooperation (ILAC).

4.2 SIRIM Berhad

STANDARDS MALAYSIA has appointed SIRIM Berhad as the sole national standards development agency. SIRIM Berhad, a company wholly owned by the Malaysian Government, was established on 1 September 1996 as a successor company to the Standards and Industrial Research Institute of Malaysia (SIRIM) upon the enactment of the Standards of Malaysia Act in 1996.

This appointment has been formalised in an agreement between the Government of Malaysia and SIRIM Berhad concluded on 4 June 1997. The appointment assigns SIRIM Berhad the task of managing the standards development structure and managing Malaysian representation in relevant regional and international technical committees.

4.2.1 Malaysian WTO/TBT Enquiry and Notification Point

Article 10.1 of the Technical Barriers to Trade Agreement of the World Trade Organisation (WTO/TBT Agreement) specifies that each member country signatory to the Agreement is obliged to establish an enquiry point.

SIRIM Berhad is appointed by the Malaysian Government to manage the WTO/TBT enquiry and notification functions as follows:

- Assistance in answering foreign enquiries on any existing or proposed Malaysian Standards, regulations and conformity assessment systems.
- Assistance in answering domestic enquiries on any existing or proposed standards, regulations and conformity assessment systems affecting trade of other WTO member countries.
- Assistance in the preparation and submission of notifications on Malaysia's proposed technical regulations to WTO in accordance with TBT agreement obligations.
- Dissemination of information on proposed foreign regulations to government agencies, institutions, organisations, associations and other interested parties in Malaysia through the WTO/TBT Newsletter.
- Provision of support to the secretariat of National Sub-committee on TBT.

4.3 Standards-Writing Organisations (SWO)

Standards-Writing Organisations (SWO) are organisations or associations appointed by SIRIM Berhad under the Malaysian Standards System to undertake the development of standards in specifically defined scopes of work. The list of SWOs are detailed in Annex A.

5. Committees

5.1 Policy Committees

5.1.1 Malaysian Standards and Accreditation Council (MSAC)

The Malaysian Standards and Accreditation Council (MSAC) is established under the Standards of Malaysia Act with the function of advising the Minister of Science, Technology and Innovation; on policies, programmes, schemes, projects and activities pertaining to standardisation and accreditation.

Duties of the Council with regard to standardisation provided in the Standards of Malaysia Act are:

- To advise, and submit recommendations for the consideration and approval of the Minister, in respect of programmes, schemes, projects and activities to promote industrial efficiency and development, and for consumer protection, through standardisation activities.
- To advise the Minister in respect of standard specifications for commodities, processes, practices and services.
- To advise the Minister on the priorities in respect of standardisation to ensure maximum effectiveness.
- To advise the Minister on the effective implementation of standard specifications for commodities, processes, practices and services.
- To submit for consideration and approval of the Minister, criteria and procedures relating to the preparation, approval, acceptance and designation of voluntary standards in Malaysia.

The current membership of the Malaysian Standards and Accreditation Council (MSAC) is as in Annex B1.

5.1.2 National Standards Committee (MyNSC)

The National Standards Committee has been established by the Council under the Malaysian Standards System with the following functions:

- To recommend to the Council the strategies, programmes and activities to promote industrial efficiency and development and for consumer protection through standardisation.
- To recommend to the Council the priorities in respect to standardisation, both national and international, to ensure maximum effectiveness.
- To recommend to the Council the criteria and procedures relating to standards development in Malaysia.
- To deliberate on certain standards submitted by the Department of Standards Malaysia or the National Standards Development Agency, where appropriate.

The current composition of the National Standards Committee is as in Annex B2.

5.1.3 National IEC Committee (MyENC)

The National IEC Committee has been established by the Council to represent the Malaysian electrotechnical industry on matters relating to the International Electrotechnical Commission (IEC).

The functions of MyENC are:

- To represent Malaysia's interest in all matters in the IEC and its various committees.
- To recommend attending appropriate meetings for purposes of representing national views and submitting appropriate documentations and propositions.
- To coordinate and formulate a national stand in respect of the IEC draft standards and standards and other matters relating to the IEC.
- To establish National IEC Sub-Committees where necessary and to provide advice to these sub-committees.

The current composition of the National IEC Committee (MyENC) is as in Annex B3.

5.2 Standards Development Committee

5.2.1 Industry Standards Committee (ISC)

Under the Malaysian Standards System, SIRIM Berhad has been assigned to manage the sector based industry standards committees (ISC) and their technical committees (TC) and working groups (WG). Annex C describes in detail the sector and composition of these ISCs.

Standards development is directly managed by Industry Standards Committees (ISCs). The ISCs coordinate all standards development activities by technical committees, working groups and SWOs established under the ISC. Open, consensus building process are adopted where the committees make decisions for adoption of standards with balanced representation from stakeholders and interested parties. The ISCs are responsible for the final acceptance of the technical content of draft Malaysian standards. Standards accepted by the ISCs are submitted to the Minister for approval after verification by STANDARDS MALAYSIA. The ISCs also take on the role of co-ordinating Malaysia's participation in international standardisation activities of the specific sector.

6. Malaysian Standards Development Process

6.1 Process

STANDARDS MALAYSIA oversees the development of Malaysian Standards undertaken by SIRIM Berhad through a transparent and consensus based process that involves the participation of all stakeholders. The Standards Development Process is as shown in Chart 2.

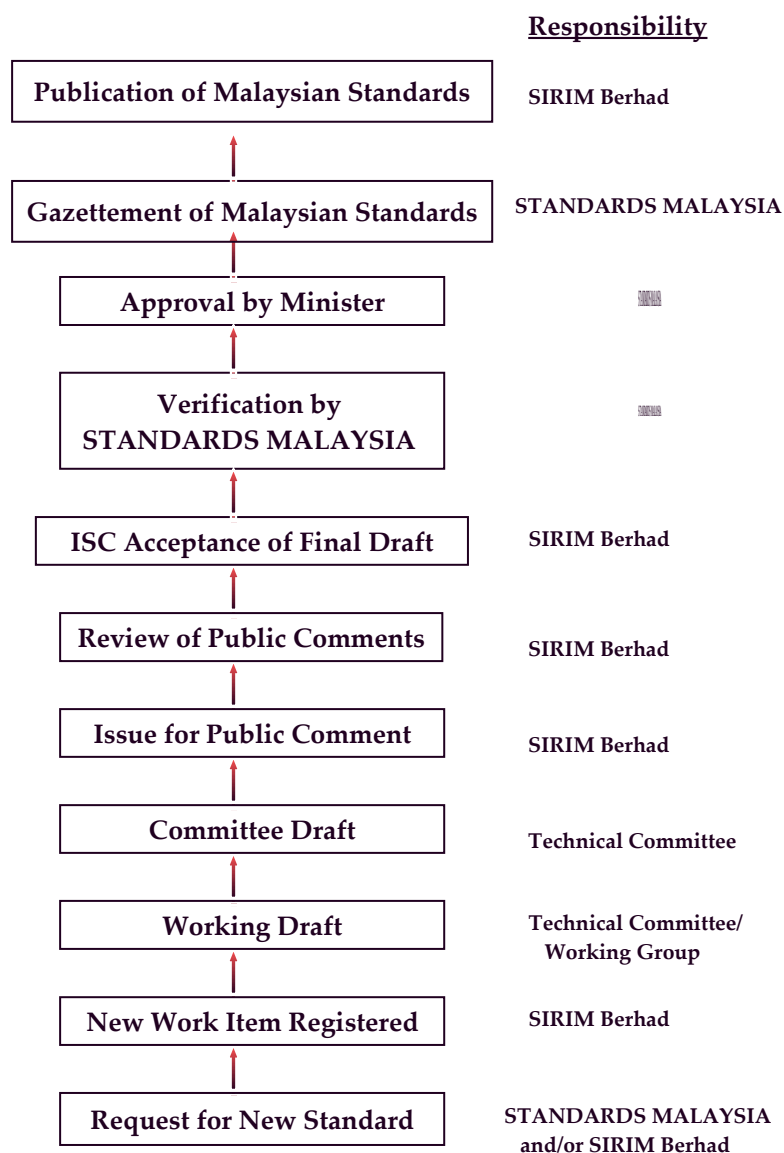


Chart 2 – Development Process of Malaysian Standards

The process of developing a Malaysian Standard can be summarised into a four-step process as in the following table:

Stage	Process
Proposal stage	The first step in the development of a Malaysian Standard is to confirm that a particular Malaysian Standard is needed. A new work item proposal (NP) is initiated from external and internal (SDCs) requests or from internal reviews including the Periodic Review. The request is then submitted for formal approval by the relevant Industry Standards Committee (ISC). Upon approval of the proposal, the project is assigned to the relevant existing technical committee (TC) or working group (WG), or a new TC or WG may be established to undertake the project.
Preparatory stage	Deliberation of a project is carried out by the TC or WG taking into account the operational policies for standard development (see 6.2). Upon finalisation of the draft and consensus is reached within the TC/WG, the Draft Malaysian Standard (DMS) is issued for Public Comment for a period of 60 days. Information regarding DMS for Public Comment is circulated to ministries, government departments, quasi-government bodies, professional or scientific bodies, trade or industrial associations and etc. Upon the closing date of the Public Comment, the DMS is reviewed by the TC or WG to address comments received (if any). All comments are responded to. The DMS incorporating comments received and accepted (if any) during the Public Comment is then finalised for submission to the ISC.
Approval stage	Upon acceptance by the ISC, the Final Draft Malaysian Standard (FDMS) is submitted to STANDARDS MALAYSIA to be forwarded to the Minister of Science, Technology and Innovation for final approval as a Malaysian Standard and gazetted.
Publication stage	Once a Malaysian Standard has been approved, it is sent for publication and listed in the Malaysian Standards Catalogue.

6.2 Operational policies for standards development

- **Access to information**

SIRIM Berhad shall make available, to interested parties, the following information upon request in suitable print or electronic media:

- a) the procedures for developing Malaysian Standards;
- b) composition, terms of reference, rules of procedure of the standards development committees under its management;
- c) current work programme of the committees under its management; and
- d) appeals procedure for appeals against decisions made by committees under its management.

- **Participation in standards development process**

Participation in the standardisation process shall be accessible to all interested parties through representation at Industry Standards Committees, Technical Committees and Working Groups or through the public comment process as appropriate. Any interested party may initiate new work proposals for standardisation or comment on existing standards or draft standards.

- **Adoption of consensus principle**

All procedures for standards development work are based on the consensus principle except as permitted by the Standards of Malaysia Act, 1996 (Act 549) in the case of urgent national requirements. All work shall be progressed based on consensus throughout the developmental stages until the acceptance of final draft standards by ISC. Records indicating consensus shall be maintained.

- **Equal treatment**

Development of standards should be in a manner that ensures equal treatment of products irrespective of country of origin.

- **Standards based on performance rather than product characteristic**

As far as practicable, standards shall be based on product requirements in terms of performance rather than design or descriptive characteristic.

- **Adoption of harmonisation principle**

Where an International Standard exists or its completion is imminent, it should be used as basis of standards development except where the International Standard is ineffective or inappropriate.

- **Adoption of international standards**

The adoption of international standards carried out under the standards development process by SIRIM Berhad is based on the ISO/IEC Guide 21.

- **Reference and use of international, foreign national, regional and other standards in the development of Malaysian Standards**

Guidelines on the reference and use of international, foreign national, regional and other standards in the development of Malaysian Standards have been approved by MyNSC. These guidelines provide guidance to all Industry Standards Committees, including their Technical Committees and Working Groups, on the use of materials from external documents in the development of Malaysian Standards. The Guidelines are as in Annex D.

- **Code of ethics for members of the Malaysian Standards System**

A code of ethics has been developed to guide members of the Malaysian Standards System on ethical practices and conduct in standardisation work. The code of ethics is as in Annex E.

6.3 Publication, distribution and sales of Malaysian Standards

The Agreement between SIRIM Berhad and the Government of Malaysia assigns SIRIM Berhad the task of publishing, distributing and selling of Malaysian Standards.

A full collection of Malaysian Standards, International Standards and other foreign standards and technical documents are maintained in the library of SIRIM Berhad. These standards are available for reference and purchase by the public. Malaysian Standards are also available online at: <http://www.msonline.gov.my/>

7. International and regional standardisation

In order to protect Malaysia's trading interest and increase competitiveness of Malaysian products and services in the global market, Malaysia needs to maintain its influence on international standardisation activities to ensure continued alignment of national standards to international standards. This has resulted in STANDARDS MALAYSIA's active participation in regional and international standardisation.

STANDARDS MALAYSIA's participation in regional and international standardisation includes:

- International Organization for Standardization (ISO)

- International Electrotechnical Commission (IEC)
- ASEAN Consultative Committee for Standards and Quality (ACCSQ)
- Asia Pacific Economic Cooperation Sub Committee on Standards and Conformance (APEC-SCSC)
- Pacific Area Standards Congress (PASC)
- Asian Europe Meeting/Trade Facilitation Action Plan on Standards and Conformance (ASEM/TFAP on SCA)

7.1 Overview

Malaysia has been a member of the International Organization for Standardisation (ISO) since 1969. Since then, the country has participated actively in several of the ISO technical committees and sub-committees.

Malaysia has held the secretariatship of the ISO/TC 45 on Rubber and Rubber Products since 1995 and has been the Secretariat for its Sub-committee 4 (SC4) on Products (Other than Hoses) since 1991 and Sub-committee 1 (SC1) on Hoses (Rubber and Plastics) since 2004. Beginning 2002, ISO has entrusted the Secretariatship of ISO/TC 157 on Mechanical Contraceptives to Malaysia.

Table 1 of Annex F shows the participation and membership status of Malaysia in ISO's technical committees and sub-committees.

In 1990, Malaysia became an International Electrotechnical Commission (IEC) member following the establishment of the National IEC Committee.

Table 2 of Annex F shows the participation and membership status of Malaysia in IEC's technical committees and sub-committees.

Annex A

List of Standards-Writing Organisation (SWO)

No.	Organisation	Sector	Scope
1	Construction Industry Development Board (CIDB)	Construction practices	<ol style="list-style-type: none"> 1. To prepare standards related to the scope of work of the assigned SDC. 2. To review existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.
2	Department of Irrigation and Drainage, Ministry of Natural Resources and Environment	Planning and designing of Urban Stormwater	<ol style="list-style-type: none"> 1. To prepare standards related to planning and designing of urban stormwater management system 2. To review existing MS related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.
3	Department of Occupational Safety and Health (DOSH), Ministry of Human Resources	Occupational health and safety	<ol style="list-style-type: none"> 1. To prepare standards related to safe systems of work and practices in occupational setting. 2. To review existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.
4	Department of Sewerage Services, Suruhanjaya Perkhidmatan Air Negara (SPAN)	Sewerage equipment and system	<ol style="list-style-type: none"> 1. To prepare standards related to the scope of work of the assigned standards development committee. 2. To review existing Malaysian Standards under the above scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope.

No.	Organisation	Sector	Scope
5	Federation Of Malaysian Manufacturers – Malaysian Industrial Gases Manufacturers Group (FMM-MIGMA)	Industrial and medical gases	<ol style="list-style-type: none"> 1. To prepare standards related to process, facilities, equipment and specification for industrial and medical gases. 2. To review existing Malaysian Standards under the above scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope.
6	Malaysian Cable Manufacturers Association (MCMA)	Cables and cable accessories	<ol style="list-style-type: none"> 1. To prepare standards related to cables and cable accessories. 2. To review existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.
7	Malaysian Palm Oil Board (MPOB)	Palm oil products	<ol style="list-style-type: none"> 1. Prepare standards related to palm oil products, oil-based food products, oleochemicals, palm kernel products and oil palm-based products. 2. Review existing Malaysian Standards related to the scope. 3. Manage participation of Malaysia in International Standardisation Committee i.e. ISO/TC 34/SC 11-Animal and Vegetable Fats and Oils through seeking, compiling and presenting national views on issues at hand for the purpose of despatching comments and votes and organising delegations to attend meetings.
8	Malaysian Plastics Manufacturers Association (MPMA)	Plastics products	<ol style="list-style-type: none"> 1. To prepare standards related to plastics products (excluding plastics pipes and fittings and plastics tank). 2. To review of existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.

No.	Organisation	Sector	Scope
9	Malaysian Rubber Board (MRB)	Rubber and rubber products	<ol style="list-style-type: none"> 1. To prepare standards related to rubber and rubber products. 2. To review existing Malaysian Standards under the scope of the listed technical committees. 3. To assist SIRIM Berhad with the voting on international and regional standardisation activities with the above scope as appropriate.
10	Malaysian Technical Standard Forum Berhad (MTSFB)	Telecommunication, multimedia and broadcasting	<ol style="list-style-type: none"> 1. To prepare standards related to telecommunications, multimedia and broadcasting. 2. To review existing Malaysian Standards under the scope of the Working Groups. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope.
11	Malaysian Timber Industry Board (MTIB)	Timber, timber products and timber structures	<p>To prepare standards on:</p> <ol style="list-style-type: none"> 1. Sawn timber and sawnlogs and semi-manufacturers of timber; 2. Wood-based panels; 3. Moulding, joinery and wood-based furniture; 4. Timber and timber products; 5. Usage of timber and timber products including grading, nomenclatures, terminology and process; and 6. Timber structures.
12	Malaysian Wood Preserving Association (MWPA)	Chemically treated wood preservation	<ol style="list-style-type: none"> 1. To prepare standards related to processes and products of wood preservation including methods of testing. 2. To review existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.

No.	Organisation	Sector	Scope
13	The Cement & Concrete Association of Malaysian (C & CA)	Cement	<ol style="list-style-type: none"> 1. To prepare standards related to cement. 2. To review existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.
14	The Electrical and Electronics Association of Malaysia (TEEAM)	Electrical and electronic products	<ol style="list-style-type: none"> 1. To prepare standards related to electrical installation, protection and insulation practice. 2. Review of existing Malaysian Standards under the above scope. 3. To monitor and report international and regional standardisation activities within the above scope.
15	The Institution of Engineers, Malaysia (IEM)	Construction codes	<ol style="list-style-type: none"> 1. Standards related to Code of Practice for design of Structure for steel, concrete, timber, composite of steel and concrete and loading codes. 2. Standards related to Code of Practice of water supply system, and sanitary systems in building.
16	The Institution of Fire Engineers (UK) Malaysia Branch (IFEM)	Fire safety	<ol style="list-style-type: none"> 1. To prepare standards related to methods of assessing the contribution of materials, building materials, products and components to fire safety and methods of mitigating the fire hazards and fire risk by determining the performance and behaviour of these materials, products and components. Excluding: Materials and equipment 2. To review existing Malaysian Standards related to the scope. 3. To monitor, deliberate, vote and report on international and regional standardisation activities within the above scope as appropriate.

Annex B

Composition of members in MSAC, MyNSC and MyENC

B1. The current composition of the Malaysian Standards and Accreditation Council (MSAC)

Chairman : Y. Bhg. Tan Sri Dr. Ahmad Tajuddin Ali
Deputy Chairman : Secretary General, Ministry of Science, Technology and Innovation
Ex-Officio : Director General, Department of Standards Malaysia

Members:

a. Government Representatives

1. Construction Industry Development Board Malaysia
2. Energy Commission
3. Ministry of Domestic Trade and Consumer Affairs
4. Ministry of Finance
5. Ministry of Higher Education
6. Ministry of International Trade and Industry

b. Manufacturers and Suppliers

1. Federation of Malaysian Manufacturers

c. Commerce, Trade and Industry and Suppliers of Services

1. National Chamber of Commerce and Industry Malaysia

d. Standardisation, Conformity Assessment and Metrology

1. SIRIM Berhad

e. Professional Associations

1. Institute Kimia Malaysia

f. Consumers and Users

1. Federation of Malaysian Consumers Association

g. Employers Federation

1. Malaysian Employers Federation

h. Co-opted Members

1. Chairman, National Standards Committee (MyNSC)
2. Chairman, National Accreditation Committee (MyNAC)
3. Chairman, National IEC Committee (MyENC)
4. Chairman, National Medical Testing Accreditation Committee (MyNMTAC)

B2. The current composition of the National Standards Committee (MyNSC)

Chairman : Y. Bhg. Tan Sri Dato' Hj. Mohd. Ramli Kushairi
Deputy Chairman : Director General, Department of Standards Malaysia
Secretary : Director of Standards, Department of Standards Malaysia

Member organisations:

Construction Industry Development Board Malaysia (CIDB)

Department of Occupational Safety and Health (DOSH)

Economic Planning Unit (EPU)

Federation of Malaysia Manufacturers (FMM)

Institute Quality Malaysia (IQM)

Malaysian Association of Architects (PAM)

Malaysian Association of Standards Users (Standards Users)

Malaysian Automotive Association (MAA)

Malaysian Productivity Council (MPC)

Ministry of Domestic Trade and Consumer Affairs (KPDN&HEP)

Ministry of Health Malaysia (MOH)

Ministry of Housing and Local Government (KPKT)

Ministry of International Trade and Industry (MITI)

Ministry of Science, Technology and Innovation (MOSTI)

Ministry of Transport (MOT)

Petroleum Nasional Berhad (PETRONAS)

Public Works Department (JKR)

Road Transport Department (JPJ)

SIRIM Berhad

Small and Medium Industry Development Corporation (SMIDEC)

The Institution of Engineers, Malaysia (IEM)

B3. The current composition of the National IEC Committee (MyENC)

Chairman : Y. Bhg. Datuk Ir. Dr. Mohd. Annas Hj. Mohd. Nor
Deputy Chairman : Director General, Department of Standards Malaysia
Secretary : Director of Standards, Department of Standards Malaysia

Member organisations:

Energy Commission (ST)

Federation of Malaysian Manufacturers (FMM)

Lembaga Kemajuan Perindustrian Malaysia (MIDA)

Lembaga Perlesenan Tenaga Atom (LPTA)

Malaysian Association of Standards Users (Standards Users)

Malaysian Communication and Multimedia Commission (SKMM)

Ministry of Domestic Trade and Consumer Affairs (KPDN&HEP)

Ministry of Energy, Water and Communication (KTAK)

Ministry of International Trade and Industry (MITI)

Ministry of Science, Technology and Innovation (MOSTI)

Petroleum Nasional Berhad (PETRONAS)

Sabah Electricity Sdn. Bhd. (SESB)

Small and Medium Industry Development Corporation (SMIDEC)

SIRIM Berhad

SIRIM QAS International Sdn. Bhd.

Syarikat SESCO Berhad

Tenaga Nasional Berhad (TNB)

The Electrical and Electronics Association of Malaysia (TEEAM)

The Institution of Engineers Malaysia (IEM)

Universiti Malaya (UM)

Universiti Teknologi Malaysia (UTM)

and any other member which the Council may think fit.

Annex C

List of Industry Standard Committees

<u>No.</u>	<u>ISC</u>	<u>Sector</u>
1	A	Agriculture
2	B	Chemicals and Materials
3	D	Building, Construction and Civil Engineering
4	E	Generation, Transmission and Distribution of Electrical Energy
5	F	Mechanical Engineering
6	G	Information Technology, Telecommunications and Multimedia
7	H	Petroleum and Gas
8	I	Halal Standards
9	J	Plastics and Plastics Products
10	K	Packaging and Distributions
11	L	Road Vehicles
12	M	Fire Safety and Prevention
13	N	Rubber and Rubber Products
14	O	Organisational Management
15	P	Iron and Steel
16	Q	Textiles and Apparels
17	R	Medical Devices and Facilities for Healthcare
18	S	Electrical Equipment and Accessories
19	T	Tourism, Exhibition and Hospitality Services
20	U	Food and Food Products
21	W	Occupational Health and Safety
22	Y	Quality Management and Quality Assurance
23	Z	Environmental Management

Annex C-1

ISC A - Industry Standards Committee on Agriculture

Scope:

Standardisation in the field of agriculture covering specifications, test methods, practices, nomenclature, classifications and definitions from production to postharvest activities and also animal food stuffs, covering the food chain from primary production to consumption, food and food safety management not including food processing.

Chairman:

Mr. Chan Han Hee
Malaysian Agrifood Corporation Bhd
Block 2A Level 15, Suite 15
Plaza Sentral
Jalan Stesen Sentral 5
50470 Kuala Lumpur
Tel: 03-2089 3405
Fax: 03-2089 3500
E-mail: chanhh@mafc.com.my

Secretary:

Ms. Maria Christina Stephenson
Standards Management Department
SIRIM Berhad
1, Persiaran Dato' Menteri
Section 2, P.O.Box 7035
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Tel: 03-5544 6314
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E-mail: christin@sirim.my

Member organisations:

Cameron Highland Flower Growers Association
Department of Agriculture Malaysia
Department of Fisheries
Department of Standards Malaysia
Department of Veterinary Services
EPA Management Sdn Bhd
Farmers Organization Authority
Federal Agricultural Marketing Authority
Federation of Livestock Farmer Association
Johor Fish Breeders Association
Malaysian Agricultural Research and Development Institute
Malaysian Agrifood Corporation
Malaysian Association of Standards Users
Malaysian Fruit Exporters Association
Malaysian Palm Oil Association
Malaysian Rubber Board

Member organisations (continued):

Ministry of Agriculture and Agro-based Industry
Ministry of International Trade and Industry
Ministry of Plantation Industries and Commodities
Rubber Industry for Smallholders Development Authority
Universiti Putra Malaysia
Universiti Kebangsaan Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC A:

TC on Planting Materials
TC on Floriculture
TC on Animal Feeding Stuffs
TC on Fresh Fruits
TC on Fresh Vegetables
TC on Animal Husbandry
TC on Good Agricultural Practice for Crop Commodities
TC on Good Aquaculture Practice
WG on Oil Palm Clonal Materials
WG on Dragonfruit Planting Materials
TC on Aquaculture
WG on Edible Birdnest Swiftlets Ranching

Annex C-2

ISC B - Industry Standards Committee on Chemicals and Materials

Scope:

Standardisation in the field of chemical and materials sector excluding polymers and petroleum.

Chairman:

Mr. N. Itithaya Jeevan
Ketua Pengarah
Jabatan Kimia, Malaysia
Jalan Sultan
46661 Petaling Jaya
E-mail:

Secretary:

Ms. Nageswary Iyampillai
Standards Management Department
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Tel: 03-5544 6315
Fax: 03-5510 8830
E-mail: nageswary_iyampillai@sirim.my

Member organisations:

Department of Mineral and Geoscience
Department of Standards Malaysia
Malaysian Association of Standards Users
Malaysian Ceramic Industry Group
Malaysian Institute of Chemistry
Malaysian Paint Manufacturers Association
Malaysian Pulp and Paper Manufacturers Association
Ministry of Agricultural and Agro-based Industry (Department of Agriculture)
Ministry of Defence (Science and Technology Research Institute for Defence)
Ministry of International Trade and Industry
Ministry of Science, Technology and Innovation (Department of Chemistry, Malaysia)
Universiti Malaya
Universiti Sains Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC B:

TC on Pulp, Paper and Board
TC on Fertilizers
TC on Pesticides and Agrochemicals
TC on Household Pesticides
TC on Metals and Ores
TC on Paints and Varnishes
TC on General Purpose Chemicals

List of Technical Committees (TC) / Working Groups (WG) under ISC B (continued):

TC on Soaps and Detergents

TC on Water Treatment Chemicals

TC on Water Quality

TC on Soil Quality

TC on Fine Ceramics

TC on Nanotechnology

TC on Safety of Toys

WG on Adhesive

WG on Clay and Clay Products

WG on Lime and Lime Products

WG on Precious Metals

WG on Aluminium and Aluminium Alloy

WG1, Terminology and Nomenclature

WG2, Measurement and Characterization

WG3, Health, Safety and Environment Aspects of Nanotechnologies

WG4, Material Specifications

WG on Physical, Chemical and Biochemical Test Method

WG on Biological and Microbiological Methods

WG on Sampling

Annex C-3

ISC D - Industry Standards Committee on Building, Construction and Civil Engineering

Scope:

Standardisation in the building, construction and civil engineering sector.

Chairman:

Ir. Elias Ismail
Construction Industry Development Board Malaysia
Level 7 & 8, Grand Seasons Avenue
No. 72, Jalan Pahang
53000 Kuala Lumpur
Tel: 03-2617 0220
Fax: 03-4045 1808

Secretary:

Ms. Nor Hashimah Ismail
Standards Management Department
SIRIM Berhad
1, Persiaran Dato' Menteri
Section 2, P.O.Box 7035
40911 Shah Alam, Selangor D.E.
Tel: 03-5544 6360
Fax: 03-5510 6389
E-mail: hashimah@sirim.my

Member organisations:

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Department of Irrigation and Drainage
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerajaan Tempatan
Jabatan Kerja Raya Malaysia
Malaysian Timber Industry Board
Master Builders Association Malaysia
Ministry of Energy, Green Technology and Water
Ministry of International Trade and Industry
National Housing Department
Pertubuhan Akitek Malaysia
The Chartered Institute of Building Malaysia
The Institution of Engineers, Malaysia
Universiti Sains Malaysia
Universiti Teknologi Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC D:

TC on Energy Efficiency of Buildings (Passive)	WG on Toilet Seats
TC on Water Supply	WG on Sanitary System
TC on Roads and Highways	WG on Reflective Glass
TC on Steel Products	WG on Design of Mosque
TC on Aluminium Products	WG on Accessibility for Disabled Persons
TC on Household Fittings and Building Accessories	WG on Modular Coordination
TC on Building Design and Construction	WG on Design Life
TC on Ceramic Materials and Sanitary Fittings	WG on Measurement
TC on Bricks and Blocks	WG on COP for Planning and Designing for Basement Parking
TC on Concrete and Concrete Products	WG on Sanitary Wares
TC on Coatings	WG on Ceramic Tiles
TC on Geotechnical Works	WG on COP for the use of Masonry
TC on Organisation of Information about Construction Works	WG on Specification for Bitumen, Polyethylene, and Materials Damp-Proof Courses for Masonry
TC on Composite Building Materials	WG on Precast Concrete Masonry Units
TC on Service activities relating to drinking water supply and sewerage	WG on Bricks of Special Shapes and Sizes
WG on Subterranean Termite Control	WG on Clay Bricks
WG on Thermal Insulation	WG on Aggregates for Mortar
WG on Road Studs	WG on Revision of MS 523: Part 3:1993
WG on Thermal Insulation	WG on Revision of MS 881: Part 1
WG on Lighting Column	WG on Precast Concrete Piles Part 7
WG on Guardrail	WG on Revision of MS 29
WG on Speed Hump	WG on Revision of MS 28
WG on Sheet Roof and Wall Cladding	WG on Revision of MS 26: Part 3
WG on Metal Equipment for Falsework and Propping	WG on Revision of MS 523: Part 2:1993
WG on Tubular and Prefabricated Scaffolding	WG on Grouting Works
	WG on Data Exchange on Architectural and Engineering Drawing
	WG on Fibre Cements

List of TC/WG under SWOs:

TC on Cement	WG on Machine Strength Grading
TC on Timber, Timber Products and Timber Structures	WG on Timber Flooring
TC on Sewerage Equipment and Sewerage System	WG on Woven/Non-woven Products and Geosynthetics
TC on COP for Design of Concrete Structure	WG on Window
TC on COP for Design of Structural Steel	WG on Structural Use of Timber (Part 8)
TC on Wind Load	WG on Fibreboard
TC on Earthquake	WG on Glossary of Terms Relating to Timber and Wood-based Panel Products
TC on Construction Practices	WG on Moisture Content of Timber
WG on Grading of Sawn Timber	WG on Wood Protecting Chemicals
WG on Particleboard	WG on Visual Strength Grading
WG on Laminated Veneer Lumber	WG on Plywood
WG on Nomenclature of Malaysian Timber	WG on Structural Use of Timber (Part 11)

Annex C-4

ISC E – Industry Standards Committee on Generation, Transmission and Distribution of Electrical Energy

Scope:

Standardisation in the field of generation, transmission and distribution of electrical energy including general issues.

Chairman:

Ir. Ahmad Fauzi Hassan
Timbalan Ketua Pegawai Eksekutif (Keselamatan dan Pembekalan)
Suruhanjaya Tenaga
Tingkat 14, Menara TH Perdana
1001, Jalan Sultan Ismail
50250 Kuala Lumpur
Tel: 03-2612 5504
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Email: fauzih@st.gov.my

Secretary:

Ms. Nuriyati Hj. Ab Rahman
Standards Management Department
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Member organisations:

Association of Consulting Engineers M'sia (ACEM)
Department of Standards Malaysia
Federation of Malaysian Consumers Association (FOMCA)
Federation of Malaysian Manufacturers (FMM)
Jabatan Kerja Raya (JKR)
Malaysian Electrical Appliances and Distributors Association (MEADA)
Malaysian Cable Manufacturers Association (MCMA)
Ministry of Domestic Trade, Co-operatives and Consumerism
Ministry of International Trade & Industry (MITI)
Persatuan Kontraktor Elektrikal, Elektronik dan Mekanikal Melayu Malaysia (PERKEM)
Pusat Tenaga Malaysia (PTM)
SIRIM QAS International Sdn Bhd
Suruhanjaya Komunikasi & Multimedia Malaysia (MCMC)
Suruhanjaya Tenaga (ST)
Tenaga Nasional Berhad (TNB)
The Association of Independent Power Producers of Malaysia (IPP)

Member organisations (continued):

The Electrical and Electronics Association of Malaysia (TEEAM)

The Institution of Engineers, Malaysia (IEM)

Universiti Teknologi Malaysia (UTM)

List of Technical Committees (TC) / Working Groups (WG) under ISC E:

TC on Glossary of Electrical and Electronics Engineering Terms

TC on EMC

TC on Low Voltage Switchgears, Controlgears and Wiring Accessories

TC on Power Quality

TC on EMF

TC on High Voltage Transmission

TC on Renewable Energy

WG on EMC - Telecommunications

WG on EMC - CISPR-IEC

WG on Plugs, Socket-outlets and Switches

WG on Electrical Speed-Drive Systems

WG on High Voltage Switchgear, Controlgear and Assemblies

WG on High Voltage Testing

WG on Insulation Oil for Electrical Equipment

WG on High Voltage Protection

WG on Electrical Energy Measurement

WG on Secondary Cells & Batteries

WG on Solar Photovoltaic System

Annex C-5

ISC F - Industry Standards Committee on Mechanical Engineering

Scope:

Standardisation of terms and definitions, methods of measurement, codes of practice, test methods, sampling, specifications, classifications and safety inspection requirements for mechanical engineering products, mechanical processes and production engineering.

Excluded:

- measurement of fluid flow of petroleum and petroleum products
- healthcare facilities

Chairman:

Ir. Rajinder Raj Devraj Sud
No. 6, Jalan SS 14/7E
Subang Jaya
Selangor
E-mail: rajinder.raj.s@gmail.com

Secretary:

Ms. Marina Mahdar
Standards Management Department
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40911 Shah Alam, Selangor D.E.
Tel: 03-5544 6345
Fax: 03-5510 6389
E-mail: marinam@sirim.my

Member organisations:

Department of Occupational Safety and Health
Department of Standards Malaysia
Jabatan Kerja Raya Malaysia
Machinery and Equipment Manufacturers Association of Malaysia
Malaysian Industrial Development Authority
Malaysian Iron and Steel Industry Federation
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health
Petroleum Nasional Berhad
Science and Technology Research Institute for Defence
SIRIM QAS International Sdn Bhd
Suruhanjaya Perkhidmatan Air Negara
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC F:

TC on Potable Water Systems and Components
TC on Mechanical Testing of Metallic Materials
TC on Furniture
TC on Gas Equipment and Appliances
TC on Lifting Devices
TC on Non-Destructive Testing
TC on Fasteners and Screw Threads
TC on Boilers and Pressure Vessels
TC on Welding and Allied Processes
TC on Metallic Pipes and Fittings
TC on Machinery and Components Engineering
TC on Technical Drawings
WG on Pressure Cooker
WG on School Furniture
WG on Gas Appliances
WG on Gas Cylinders, Equipment and Accessories
WG under SWO FMM-MIGMA
WG on Lifts and Escalators
WG on Cranes
WG on Wood-based Furniture
WG on Security Office Safe
WG on Water-cooled and Air-cooled Chillers

Annex C-6

ISC G - Industry Standards Committee on Information Technology, Telecommunications and Multimedia

Scope:

Standardisation in the field of IT, telecommunication and multimedia including management, codes of practice, guidelines and specification.

Chairman:

Dr. Raslan Ahmad
Ministry of Science, Technology and Innovation (ICT Policy Division)
Level 5, Block C-5, Parcel C
62662 Putrajaya
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Fax: 03-88884328
Email: raslan@mosti.gov.my

Secretary:

Ms. Salwa Denan
Standards Management Department
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Fax: 03-5510 6389
E-mail: salwad@sirim.my

Member organisations:

Association of Consulting Engineers Malaysia (ACEM)
Department of Standards Malaysia
Federation of Malaysian Manufacturers (FMM)
Institut Tadbiran Awam Negara, Malaysia (INTAN)
Malaysian Administrative, Modernisation and Management Planning Unit
Malaysian International Chamber of Commerce and Industry (MICCI)
Malaysian National Computer Confederation (MNCC)
Malaysian Technical Standards Forum Berhad
MIMOS Berhad
Ministry of Domestic Trade, Co-operatives and Consumerism
Ministry of Information, Communication and Culture
Ministry of International Trade and Industry (MITI)
Ministry of Science, Technology and Innovation (MOSTI)
Multimedia Development Corporation Sdn Bhd (MDeC)
Multimedia University
Persatuan Industri Komputer dan Multimedia Malaysia
Science and Technology Research Institute for Defence
Suruhanjaya Komunikasi dan Multimedia Malaysia
Telekom Malaysia Berhad

Member organisations (continued):

The Institution of Engineers, Malaysia (IEM)
Universiti Teknologi Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC G:

TC on Multilingual Information Technology
TC on Geographic Information / Geomatics
TC on Intelligent Transportation System
TC on E-Commerce
TC on Information Security
TC on Computer Graphics and Multimedia
TC on Health Informatics Standards
TC on Identification Cards and Related Devices
TC on Biometrics
TC on Software Engineering
TC on IT Interconnection, Communications and System Information
TC on Automatic Identification and Data Capture Techniques
WG on Information Security Management Systems
WG on Cryptography and Security Mechanisms
WG on Security Evaluation Criteria
WG on Security Controls and Services
WG on Biometric Technical Sub-Group
WG on Biometric Applications, Testing and Societal Aspects

Annex C-7

ISC H - Industry Standards Committee on Petroleum and Gas

Scope:

Standardisation of methods of measurement, sampling and test, terminology, classifications and specifications for petroleum, petroleum products, its derivatives, industrial gas and bio-fuels. Standardisation of the materials, equipment and offshore structures used in the drilling, production, processing, transport by pipelines, storage, handling and utilisation of liquids and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.

Chairman:

Mr. Pramod Kumar Karunakaran
PETROLIAM NASIONAL BERHAD
Level 44, Tower 1, Petronas Twin Towers,
Kuala Lumpur City Centre,
50088 Kuala Lumpur
Tel: 03-2783 6407
Fax: 03-2783 6399
Email: pramod@petronas.com.my

Secretary:

Ms. Lee Hooi Lan
Standards Management Department
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Fax: 03-5510 6389
E-mail: lee_hooi.lan@sirim.my

Member organisations:

Association of Consulting Engineers Malaysia
Department of Occupational Safety and Health
Department of Standards Malaysia
Energy Commission
ExxonMobil Malaysia Sdn. Bhd.
Fire and Rescue Department
FMM-MIGMA
Malaysian Gas Association
Malaysian Oil and Gas Engineering Consultants
Malaysian Palm Oil Board
Malaysian Petroleum Institute
Malaysian Plastics Manufacturers Association
Ministry of Domestic Trade and Consumer Affairs
Ministry of International Trade and Industry
Petroleum Nasional Berhad
Road Transport Department Malaysia
Shell Malaysia Trading Sdn Bhd
The Institution of Engineers, Malaysia

Member organisations (continued):

Universiti Teknologi Malaysia

Universiti Teknologi Petronas

List of Technical Committees (TC)/Working Groups (WG) under ISC H:

TC on Petroleum and Gas Measurement

TC on Petroleum Fuels

TC on Natural Gas

TC on Liquefied Petroleum Gas and Related Products

TC on Petroleum Lubricants

TC on Pipeline Transportation

WG on Low Pressure Pipeline Transportation

WG on Protective Coatings and linings for oil and gas facilities

WG on Compressed Natural Gas Compressor Refuelling Station

WG on Coriolis Mass Meter

WG on CNG Dispenser

Annex C-8

ISC I - Industry Standards Committee on Halal Standards

Scope:

Standardisation in the field of generic management systems, food and non-food (excluded: preparation of standards related to specific products and industry sectors) from Islamic perspectives.

Chairman:

Y. Bhg. Dato' Hj. Wan Mohamad Dato' Sheikh Abd Aziz
Jabatan Kemajuan Islam Malaysia
Aras 9, Blok D7,
Pusat Pentadbiran Kerajaan Persekutuan
62519 Putrajaya
Tel: 03-8886 4010/4043
Fax: 03-8889 2033
Email: wan@islam.gov.my

Secretary:

Ms. Masrina Mansor
Standards Management Department
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40911 Shah Alam, Selangor
Tel: 03-5544 6327
Fax: 03-5510 8830
Email: masrina@sirim.my

Member organisations:

Department of Islamic Development Malaysia
Department of Standards Malaysia
Department of Veterinary Services
Federation of Malaysian Consumers' Association
Federation of Malaysian Manufacturers
Halal Industry Development Corporation Sdn Bhd
Institute of Islamic Understanding Malaysia
Institute of Quality Malaysia
Malaysian Agricultural Research and Development Institute
Ministry of Domestic Trade and Consumer Affairs
Ministry of Health (Food Quality Control Division)
Ministry of Health (National Pharmaceutical Control Bureau)
Ministry of International Trade and Industry, Malaysia
Muslim Consumers' Association of Malaysia
Universiti Islam Antarabangsa

Co-opted member:

Yayasan Ilmuwan

List of Technical Committees (TC) / Working Groups (WG) under ISC I:

TC on Halal Food and Islamic Consumer Goods

TC on Management Systems from Islamic Perspectives

WG on Halal Logistics

WG on Islamic Terminology and Nomenclature

Annex C-9

ISC J - Industry Standards Committee on Plastics and Plastics Products

Scope:

Standardisation of terminology, methods of test and specifications applicable to materials and products in the field of plastics

Chairman:

Mr. Ahmad Khairuddin Sha'aban
Malaysian Petrochemical Association (MPA-FMM)
c/o PETRONAS Polymer Technology Centre
Petrochemical Business Division
Level 14, Tower 1, PETRONAS Twin Towers
Kuala Lumpur City Centre
50088 Kuala Lumpur
Tel :03-2331 1015
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E-mail : khairuddin_shaaban@petronas.com.my

Secretary:

Ms. Azlina Abd Latif
Standards Management Department
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Fax: 03-5510 8830
E-mail: azlina_abd.latif@sirim.my

Member organisations:

Department of Standards Malaysia
Federation of Malaysian Manufacturers
Malaysian Institute of Chemistry
Malaysian Rubber Board
Malaysian Association of Standards Users
Malaysian Plastics Manufacturers Association
Ministry of Domestic Trade, Co-operatives and Consumerism
Ministry of International Trade and Industry Malaysia
Ministry of Health Malaysia
Plastics and Rubber Institute of Malaysia
Public Works Department Malaysia
SIRIM Berhad (Advanced Polymer and Composites Programme)
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia
Universiti Sains Malaysia
Universiti Teknologi Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC J:

TC on General Methods of Test for Plastics
TC on Plastics Pipes and Fittings
TC on Plastics Products
TC on General and Raw Materials for Plastics
TC on Plastics Tank
WG on PE Pipes and Fittings
WG on PVC Pipes and Fittings
WG on PB Pipes and Fittings
WG on PE-X Pipes and Fittings
WG on ABS Pipes and Fittings
WG on PVC-C Pipes and Fittings
WG on PP Pipes and Fittings
WG on Thermoplastics Structured-wall Pipes

Annex C-10

ISC K - Industry Standards Committee on Packaging and Distributions

Scope:

Standardisation in the packaging and distribution of goods by land, air and sea inclusive of terminology, dimensional requirements, marking, performance and quality requirements, test methods, labelling requirements and the impact of packaging on health and the environment. Excluded: Packaging which is in direct contact with food (to be dealt with by ISC U on Food and Food Products)

Chairman:

Mr. Kanagalingam T. Selvarasah
Jabatan Laut Semenanjung Malaysia
Ibu Pejabat Laut
Peti Surat 12
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Selangor Darul Ehsan
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E-mail : kana@marine.gov.my

Secretary:

Ms. Azlina Abd Latif
Standards Management Department
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40911 Shah Alam, Selangor D.E.
Tel: 03-5544 6310
Fax: 03-5510 8830
E-mail: azlina_abd.latif@sirim.my

Member organisations:

Department of Environment Malaysia
Department of Standards Malaysia
Department of Civil Aviation Malaysia
Federation of Malaysian Manufacturers
Federation of Malaysian Port Operators Companies
Federation of Malaysian Freight Forwarders
Keretapi Tanah Melayu Berhad
Malaysian Pulp and Paper Manufacturers Association
Malaysian Plastics Manufacturers Association
Ministry of Domestic Trade, Co-operatives and Consumerism
Ministry of International Trade and Industry Malaysia
Port Klang Authority
Road Transport Department Malaysia
Universiti Putra Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC K:

TC on Freight Containers

TC on Packaging

TC on Pallets

TC on Transport of Dangerous Goods

WG on Manual of Tests and Criteria

WG on Packaging for Dangerous Goods

Annex C-11

ISC L - Industry Standards Committee on Road Vehicles

Scope:

Standardisation in the road vehicle and automotive engineering sector.

Chairman:

Y. Bhg. Dato' Haji Solah Mat Hassan
Ketua Pengarah
Jabatan Pengangkutan Jalan
Ibu Pejabat JPJ
Blok D4, Aras 2,
Pusat Pentadbiran Kerajaan Persekutuan
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Secretary:

Ms. Nik Aida Azura Nik Md Salleh
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Member organisations:

Automobile Association of Malaysia
Department of Environment Malaysia
Department of Standards Malaysia
Malaysian Automotive Association
Malaysian Automotive Components Parts Manufacturers Association
Malaysian Institute of Road Safety Research
Ministry of International Trade and Industry Malaysia
Motosikal dan Enjin Nasional Sdn. Bhd.
Motorcycle and Scooter Assemblers and Distributors Association of Malaysia
Perodua Manufacturing Sdn. Bhd.
Polis Diraja Malaysia
Perusahaan Otomobil Nasional Sdn Bhd
Small & Medium Industries Development Corporation
Universiti Putra Malaysia
Universiti Teknologi Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC L:

TC on General Safety
TC on Electrical and Electronic Equipment
TC on Brake Suspension System and Mechanical Support
TC on Pollution and Energy
TC on Passive Safety
TC on Tyre
TC on Lighting and Signalling
TC on Vehicle Powertrain & Fuels System
TC on Motorcycles
TC on Construction of Commercial Vehicles
WG on Speed Monitoring Devices for Road Vehicles
WG on Protective Helmet for Road Users
WG on Wheel Rims & Assembly for Motorcycles
WG on NGV
WG on Suspension System

Annex C-12

ISC M - Industry Standards Committee on Fire Safety and Prevention

Scope:

Standardisation in the fire safety and fire prevention sector inclusive of:

- a) equipment for the prevention and suppression of fire:
 - i) fire extinguishing equipment
 - ii) fire detection equipment and system
 - iii) materials for fire control
- b) fire test on building materials, components and structure.

Chairman:

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Secretary:

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Member organisations:

Association of Consulting Engineers, Malaysia
Construction Industry Development Board Malaysia
Department of Chemistry Malaysia
Department of Standards Malaysia
Forest Research Institute Malaysia
Jabatan Bomba & Penyelamat Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Association of Standards Users
Malaysian Fire Protection Association
Master Builders Association Malaysia
Ministry of International Trade and Industry
Persatuan Insuran Am Malaysia
Pertubuhan Akitek Malaysia
Real Estate Housing Developers' Association Malaysia
SIRIM QAS International Sdn Bhd
Tenaga Nasional Berhad
The Institution of Engineers, Malaysia
The Institution of Fire Engineers (UK) Malaysia Branch

Member organisations (continued):

Universiti Kebangsaan Malaysia

Universiti Putra Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC M:

TC on Dry Fire Protection

TC on Wet Fire Protection System

TC on Passive Fire Protection System

TC on Smoke Management

TC on Fire Properties of Building Materials (SWO)

WG on Portable Fire Extinguisher

WG on 'Keluar' Sign

WG on Fixed Aerosol Fire Extinguisher

WG on Fire Detection and Fire Alarm System

Annex C-13

ISC N - Industry Standards Committee on Rubber and Rubber Products

Scope:

Standardization of terms and definitions, test methods and specifications for rubber in any form, rubber products such as coated fabrics, flexible cellular materials, rubber gloves (except for medical purposes and for safety and protection), and hoses whether made of rubber or plastics, are dealt with in ISC N. Also included are major rubber compounding ingredients. Excluded: tyres and other automotive components (dealt with by ISC L); medical devices (dealt with by ISC R).

Chairman:

Dato' Dr. Kamarul Baharain
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RRIM Consult Cooperation
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Secretary:

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Member organisations:

Association of Malaysian Medical Industries (AMMI)
Department of Standards Malaysia
Institute of Materials Malaysia
Lembaga Getah Malaysia
Malaysian Association of Standards Users
Malaysian Rubber Export Promotion Council (MREPC)
Malaysian Rubber Glove Manufacturers Association (MARGMA)
Malaysian Rubber Products Manufacturers' Association
Ministry of International Trade and Industry
Plastic and Rubber Institute of Malaysia
Tyre Retreading Manufacturers' Association of Malaysia
Universiti Sains Malaysia
Universiti Teknologi MARA

Co-opted member :

Malaysian Latex and Rubber Thread Manufacturers' Association

List of Technical Committees (TC) / Working Groups (WG) under ISC N:

TC on Tubing and Hoses

TC on Physical Test

TC on Raw Material and Chemical Testing

TC on Latex Products

TC on General Rubber Goods

TC on Engineering Rubber Products

Annex C-14

ISC O - Industry Standards Committee on Organisational Management

Scope:

Standardisation in the field of organisational management including social responsibilities, risk management, societal security, information and documentation.

Chairman:

Y. Bhg. Datuk Marimuthu Nadason
Malaysian Association of Standard Users
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Secretary:

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Member organisations:

Arkib Negara Malaysia
Department of Standards Malaysia
Federation of Malaysian Public Listed Companies Berhad
Jabatan Kebajikan Masyarakat Malaysia
Jabatan Keselamatan dan Kesihatan Pekerjaan
Kementerian Perdagangan Antarabangsa dan Industri
Malaysian Association of Standard Users
Malaysian International Chamber of Commerce and Industry
Malaysian Institute of Corporate Governance
Petroleum Nasional Berhad (PETRONAS)
Suruhanjaya Sekuriti
Telekom Malaysia Berhad
The Institution of Engineers Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC O:

TC on Risk Management
TC on Business Continuity Management
TC on Records Management
TC on Educational Services
WG on Social Responsibility

Annex C-15

ISC P - Industry Standards Committee on Iron and Steel

Scope:

Standardisation in the field of cast irons, cast, wrought, rolled and formed steels and coated steels.

Chairman:

Tuan Haji Abdul Halim Abdul Rahman
SIRIM Precision Tooling (M) Sdn Bhd
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Secretary:

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Member organisations:

Association of Marine Industries of Malaysia
Construction Industry Development Board Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers
IKRAM QA Services Sdn Bhd
Institute of Materials Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Industrial Development Authority
Malaysian Iron and Steel Industry Federation
Master Builders Association of Malaysia
Ministry of International Trade and Industry
Pertubuhan Akitek Malaysia
SIRIM Berhad (National Centre for Machinery and Equipment Technology)
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC P:

TC on Raw Materials for Iron and Steel Production and Intermediate Products

TC on Continuous Mill Flat Rolled Products

TC on Steel for Structural Purposes

TC on Alloy Steels

TC on Iron and Steel Castings

TC on Steels for Bars, Wire Rods and Wire Products

TC on Testing, Sampling and Terminology on Iron and Steel

Annex C-16

ISC Q - Industry Standards Committee on Textiles and Apparels

Scope:

Standardization of fibres, yarns, threads, cords, rope, cloth and other fabricated textile materials; and the methods of test, terminology and definitions relating thereto; textile industry raw materials, auxiliaries and chemical products required for processing and testing; specifications for textile products including apparels and accessories.

Chairman:

Tuan Haji Abdul Hamid Abdul Majid
Malaysian Textile Manufacturers Association
22, Taman Selamat
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Secretary:

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Member organisations:

Department of Chemistry Malaysia
Department of Fisheries Malaysia
Department of Standards Malaysia
Malaysian Institute of Chemistry
Malaysian Knitting Manufacturers Association
Malaysian Textiles Manufacturers Association
Perbadanan Kemajuan Kraftangan Malaysia
Science and Technology Research Institute for Defense
SIRIM QAS International Sdn Bhd
Universiti Teknologi MARA

List of Technical Committees (TC) / Working Groups (WG) under ISC Q:

TC on Textiles, Apparels and Physical Tests	WG on Size Designation of Clothing
TC on Technical Textiles	WG on Textile – Glossary
TC on Textile Raw Materials and Chemical Tests	WG on Shoes
WG on Tenunan	WG on Textiles Flammability and
WG on Batik	Dimensional change test

Annex C-17

ISC R - Industry Standards Committee on Medical Devices and Facilities for Healthcare

Scope:

Standardisation of:

1. medical devices, covering the whole life cycle such as design, development, manufacture, pre-market, placement on market, post market, use, operation and maintenance and disposal; and
2. facilities for healthcare, covering the design and application aspects for healthcare facilities.

Where,

Medical device is defined as any instrument, apparatus, implement, machine, appliance, implant, in vitro reagent or calibrator, software, material or other similar or related article, intended by the manufacturer to be used, alone or in combination, for human beings for one or more of the specific purpose(s) of;

- diagnosis, prevention, monitoring, treatment or alleviation of diseases;
- diagnosis, monitoring, treatment, alleviation of or compensation for injury;
- investigation, replacement, modification, or support of the anatomy or of a physiological process;
- supporting or sustaining life;
- control of conception;
- disinfection of medical devices;
- providing information for medical or diagnostic purposes by means of in vitro examination of specimens derived from the human body;

and which does not achieve its primary intended action in or on the human body by pharmacological, immunological or metabolic means, but which may be assisted in its function by such means.

Chairman:

Mr. Zamane Abd Rahman
Medical Device Bureau
Kementerian Kesihatan Malaysia
Aras 5 Blok E6, Parcel E
Presint 1, Pusat Pentadbiran Kerajaan Persekutuan
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Member organisations:

Association of Malaysian Medical Industries
Biomedical Engineering Association Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Institute for Medical Research
Lembaga Perlesenan Tenaga Atom
Malaysian Association of Standards Users
Malaysian Medical Association
Malaysian Medical Devices Association
Malaysian Nuclear Agency
Malaysian Organization of Pharmaceutical Industry
Malaysian Rubber Board
Malaysian Rubber Export Promotion Council
Ministry of Health Malaysia
Pharmaceutical Association of Malaysia
Radiation Physics, Biophysics and Medical Physics Sub-Group of Institute of Physics Malaysia
SIRIM QAS International Sdn Bhd
Universiti Kebangsaan Malaysia (Faculty of Allied Health Sciences)
Universiti Teknologi Malaysia (Faculty of Science)

List of Technical Committees (TC) / Working Groups (WG) under ISC R:

TC 1 on Quality management and corresponding general aspects for medical devices
TC 2 on Disposable devices
TC 3 on Anaesthetic/respiratory and electromechanical devices
TC 4 on Usage of medical devices
TC 5 on Diagnostic and therapeutic radiation
TC 6 on Implants for surgery
TC 7 on Clinical laboratory testing and in vitro diagnostic test systems
TC 8 on Mechanical Contraceptives
TC 9 on Ophthalmic Optics
TC 10 on COP of Active Medical Devices and on LV Electrical Equipment/System in Healthcare Facilities
WG on Hydroxyapatite
WG on Non-ionising Radiation
WG on Dental Implants
WG on Joint Replacement Implants
WG on Active Implants

Annex C-18

ISC S - Industry Standards Committee on Electrical Equipment and Accessories

Scope:

Standardisation in the field of electrical equipment and accessories

Chairman:

Ir. Noor Azlan Mohd Ghazali
Jabatan Pengurusan & Perhubungan Kawal Selia
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Secretary:

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Member Organisations :

Department of Standards Malaysia
Federation of Malaysian Manufacturers
Gabungan Persatuan-persatuan Pengguna-pengguna Malaysia
Khind-Mistral Industries Sdn Bhd
Malaysia Energy Centre
Malaysian Association of Standards Users
Malaysian Cable Manufacturers Association
Ministry of Domestic Trade, Co-operatives and Consumerism
Suruhanjaya Komunikasi & Multimedia Malaysia
Suruhanjaya Tenaga
Tenaga Nasional Berhad
Time Era Sdn Bhd
TNB Distribution Sdn Bhd
The Electrical and Electronics Association of Malaysia
Universiti Multimedia
Universiti Tenaga Nasional (UNITEN)

List of Technical Committees(TC)/ Working Group (WG) under ISC S:

TC on Safety of Household and Similar Electrical Appliances
TC on Performance of Household and Similar Electrical Appliances
TC on Lighting, Lamps and Accessories
TC on Audio, Video, IT and Communication Equipment
TC on Equipment for Explosive Atmospheres
TC on Environmental Standardisation for Electrical and Electronic Products and Systems
TC on Radiological and Nuclear Safety
TC on Rotating Machinery
TC on Dependability
WG on Code of Practice for Energy Efficiency and Conservation in Industries
WG on Household Electrical Motor Appliances
WG on Household Electrical Heating Appliances
WG on Household Electrical Combined and General Appliances
WG on Road Lighting
WG on Environmental Testing for Electrical and Electronics Equipment
WG on Industrial Networks
WG on Functional Safety of Electrical/Electronics/Programmable Electronic Safety-Related Systems
WG on Dosimetry 1
WG on Dosimetry 2
WG on Radiation Processing
WG on Medical 1

Annex C-19

ISC T - Industry Standards Committee on Tourism, Exhibition and Hospitality Services

Scope:

Standardisation in the field of services offered by tourism, meeting, incentive, convention and exhibition and hospitality service providers.

Chairman:

Y.Bhg. Datuk Hj. Ab. Ghaffar A. Tambi
Kementerian Pelancongan Malaysia
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Pusat Dagangan Dunia Putra(PWTC)
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Secretary:

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Member organisations:

Department of Skills Development
Department of Standards Malaysia
Malaysian Association of Hotels
Malaysian Association of Standards Users
Malaysian Association of Tour and Travel Agents
Malaysian Tourist Guides Council
Marine Department Peninsula Malaysia
Ministry of Housing and Local Government
Ministry of Natural Resources and Environment Malaysia
Ministry of Tourism Malaysia
Ministry of Youth and Sports

List of Technical Committees (TC) / Working Groups (WG) under ISC T:

TC on Tourism and Related Services	WG on Beaches
WG on Recreational Scuba Diving	WG on Natural Protected Area
WG on Wellness Spa	WG on Skill Standards
WG on Tourist Information and Reception	WG on Outdoor Adventure
WG on Golf Services	WG on Hotel Star Classification

Annex C-20

ISC U - Industry Standards Committee on Food & Food Products

Scope:

Standardisation in the field of food products.

Chairman:

Ms. Noraini Dato' Mohd Othman
Food Safety and Quality Division
Department of Public Health, Ministry of Health
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Member organisations:

Department of Agriculture
Department of Chemistry
Department of Standards Malaysia
Federal Agricultural Marketing Authority
Federation of Malaysian Manufacturers
Malaysian Agricultural Research and Development Institute
Malaysian Association of Standards Users
Malaysian Institute of Food Technology
Malaysian Palm Oil Association
Malaysian Palm Oil Board
Ministry of Agriculture and Agro-Based Industry
Ministry of Health Malaysia
Ministry of International, Trade and Industry
National Biotechnology Division, Ministry of Science, Technology and Innovation
Universiti Kebangsaan Malaysia
Univesiti Putra Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC U:

TC on Cocoa Products and Chocolate
TC on Sweetener and Related Product
TC on Processed Fruits
TC on Poultry and Meat Products – Fresh and Processed
TC on Beverages and Beverages Products
TC on Sauces and Paste
TC on Processed Vegetables
TC on Cereals, Pulses and Related Products
TC on Spices and Condiments
TC on Fish and Fishery Products
TC on Genetically Modified Food
TC on Dairy Products
TC on Food Packaging
TC on Herbs
TC on Foods for Infants and Children
TC on Ice
TC on Food Safety System
TC on Fats and Oils (SWO-MPOB)
WG on Food Additives
WG on Starches
WG on Food Irradiation
WG on Sensory Evaluation
WG on Honey
WG on Eggs
WG on Soya Sauce
WG on Groundnut
WG on Rice
WG on Plastics Migration into Food
WG on Phytopharmaceutical Aspect of Herbs
WG on Clinical and Toxicological aspect of Herbs
TC on Method of Analysis and Sampling
WG on Gelatine

Annex C-21

ISC W - Industry Standards Committee on Occupational Health and Safety

Scope:

Standardisation in the field of occupational health and safety including management, codes of practice, guidelines and specifications

Chairman:

Y. Bhg. Dato' Ir. Dr. Johari Basri
Jabatan Keselamatan dan Kesihatan Pekerjaan (DOSH)
Aras 2, 3 dan 4, Blok D3, Kompleks D
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Secretary:

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Member organisations:

Business Council for Sustainable Development in Malaysia
Chemical Industries Council of Malaysia
Construction Industry Development Board Malaysia
Department of Agriculture
Department of Chemistry Malaysia
Department of Occupational Safety and Health
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Bomba dan Penyelamat Malaysia
Lloyd's Register Technical Services Sdn Bhd
Malaysian Employers Federation
Malaysian Industrial Hygiene Association
Malaysian International Chamber of Commerce and Industry
Malaysian Nuclear Agency
Malaysian Society of Occupational Safety and Health
Malaysian Trade Union Congress
Ministry of Health Malaysia
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health
SIRIM QAS International Sdn Bhd

Member organisations (continued):

Small and Medium Industries Development Corporation

Suruhanjaya Tenaga

The Institution of Engineers, Malaysia

Universiti Kebangsaan Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC W:

TC on Safety of Machinery

TC on Ergonomics

TC on Safety in Laboratories

TC on Personal Safety - Protective Clothing and Equipment for Occupational Use

TC on Acoustics, Noise and Vibration

TC on Safe System of Work and Practices in Occupational Setting (DOSH-SWO)

WG on Safety in Laboratories – Microbiological

WG on Safety in Laboratories – Mechanical Aspect

WG on Life Jackets

WG on Work in Tunneling

WG on Wood-Working Machinery (MTIB-SWO)

Annex C-22

ISC Y - Industry Standards Committee on Quality Management and Quality Assurance

Scope:

Standardisation in the field of quality management and conformity assessment (generic systems and supporting technologies) as well as quality management standardisation in specific sectors.

Chairman:

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Secretary:

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Member organisations:

Construction Industry Development Board Malaysia
Department of Standards, Malaysia
Federation of Malaysian manufacturers
Institute of Quality Malaysia
Malaysian Administrative Modernisation and Management Planning Unit
Malaysian Agricultural Research and Development Institute
Malaysian International Chamber of Commerce & Industry
Ministry of International Trade and Industry
National Pharmaceutical Control Bureau
Science and Technology Research Institute for Defence
SIRIM Berhad
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Utara Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC Y:

QMQA TC2 on Quality Systems	TC4 on Statistical Methods
QMQA TC3 on Supporting Technologies	TC5 on Conformity Assessment
WG on Translation of ISO 9001	

Annex C-23

ISC Z - Industry Standards Committee on Environmental Management

Scope:

Standardisation in the field of environmental management systems and tools in support of sustainable development.

Chairman:

Y. Bhg. Dato' Dr. Nadzri Yahaya
Kementerian Perumahan dan Kerajaan Tempatan
Jabatan Pengurusan Sisa Pepejal Negara
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Secretary:

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Member organisations:

Association of Consulting Engineers Malaysia
Association of Environmental Consultants and Companies of Malaysia
Balai Ikhtisas Malaysia
Business Council for Sustainable Development Malaysia
Centre for Environment Technology and Development Malaysia
Department of Environment
Department of Standards Malaysia
Environmental Management and Research Association of Malaysia
Federation of Malaysian Manufacturers
Malaysian International Chamber of Commerce and Industry
Malaysian Nuclear Agency
Malaysian Palm Oil Association
Malaysian Palm Oil Board
Malaysian Palm Oil Council
Malaysian Plastics Manufacturers Association
Malaysian Rubber Board
Malaysian Rubber Glove Manufacturers' Association
Malaysian Textile Manufacturers Association
Ministry of Domestic Trade, Co-operative and Consumerism

Member organisations (continued):

Ministry of Housing and Local Government
Ministry of International Trade and Industry
Ministry of Natural Resources and Environment ministry of Plantation Industries and Commodities
Ministry of Science, Technology and Innovation
SIRIM Berhad (Environmental and Bioprocess Technology Centre)
The Electrical & Electronics Association of Malaysia
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Putra Malaysia

List of Technical Committees (TC) / Working Groups (WG) under ISC Z:

TC on Environmental Management Systems and Environmental Auditing
TC on Environmental Labelling
TC on Environmental Performance Evaluation
TC on Life Cycle Assessment
TC on Terms and Definitions
TC on Climate Change
TC on Air Quality
TC on Eco-labelling Criteria
TC on Waste
TC on Planning and Designing of Urban Stormwater Management
TC on Solid Biofuel
TC on Energy Management
WG on Material Flow Cost Accounting
WG on Air Pollution Control and Measurement
WG on Environmental Communications
WG on General Aspects
WG on Workplace Atmosphere and Indoor Air
WG on Ambient Atmosphere and Meteorology
WG on Stationary Source Emissions
WG on Odour Control and Treatment System
WG on Solid Waste
WG on Site Remediation
WG on Scheduled Waste
WG on Eco-labelling Criteria for Adhesives and Water-based Adhesives
WG on Eco-labelling Criteria for Biofire Composite Construction Material
WG on Eco-labelling Criteria for Fabric Care Product
WG on Eco-labelling Criteria for Floor Mat
WG on Eco-labelling Criteria for Food Grade Lubricants
WG on Eco-labelling Criteria for Paper –based Packaging Products
WG on Eco-labelling Criteria for Recycled Rubber Products

Annex D

Policy on the reference and use of international, foreign national, regional and other standards in the development of Malaysian Standards

Objective

The objective of this policy guideline is to provide guidance to all Industry Standards Committees, including their Technical Committees and Working Groups, on the use of materials from external documents in the development of Malaysian Standards.

Policies and principles

- a) The Department of Standards and SIRIM Berhad will take all necessary action to ensure that intellectual property rights of all relevant parties are respected.
- b) As a member of several international standards organisations, Malaysia is entitled to use directly or indirectly materials published by these organisations in the development of Malaysian Standards. The use of such materials shall be acknowledged in the foreword of the relevant Malaysian Standard.
- c) As a signatory of the Technical Barriers to Trade Agreement of the World Trade Organisation (WTO), appropriate action shall be undertaken to abide with the articles of the agreement with regard to international standards. In this respect Malaysia has also declared its acceptance to Annex 3 of this agreement: *Code of Good Practice for the Preparation, Adoption and Application of Standards*. The provisions of article F are especially relevant:

"Where international standards exist or their completion is imminent, the standardizing body shall use them, or the relevant parts of them, as a basis for the standards it develops, except where such international standards or relevant parts would be ineffective or inappropriate, for instance, because of an insufficient level of protection or fundamental climatic or geographical factors or fundamental technological problems."
- d) As a member of the Asia Pacific Economic Cooperation (APEC), the document titled: *Guide for alignment of APEC member economies' standards with international standards*, is adopted to facilitate the alignment of Malaysian Standards with international standards in line with the Osaka Action Agenda. Malaysia has also developed a plan to align its standards in the priority areas identified by the Subcommittee on Standards and Conformance of APEC Committee on Trade and Investment (CTI).
- e) Malaysia has similarly developed a plan for harmonisation of Malaysian Standards with international standards in accordance with the programme proposed by the ASEAN Consultative Committee on Standards and Quality (ACCSQ).
- f) SIRIM Berhad and STANDARDS MALAYSIA have adopted the provisions of ISO/IEC Guide 21-1: 2005, *Regional or national adoption of International Standards and other International Deliverables – Part 1: Adoption of International Standards* to govern the methods of adopting international standards and to identify such adopted standards.
- g) Prior approval shall be sought or mutual agreements shall be in place for the use of copyright material in Malaysian Standards. This includes foreign national or regional standards, other standards or references.

Annex E

Code of Ethics for Members of the Malaysian Standards System

1. To act honestly, in good faith and in the best interest of the country;
2. To respect and abide by the principles of due process, transparency, openness, impartiality and consensus building;
3. To act in accordance with the highest professional standards, avoiding real or perceived conflicts of interest whenever possible and to disclose them to affected parties when they do exist;
4. To avoid injuring others, their property, reputation, or employment by false, malicious or improper action;
5. To safeguard STANDARDS MALAYSIA and its appointed agency(ies)'s reputation and integrity by ensuring that any public statements relating to the said parties which are not their official statements are properly portrayed as the opinion of the individual making them;
6. To be honest and realistic in stating claims or estimates based on available data;
7. To improve the understanding of standards and technology embodied in them, their appropriate application and implications to the nation;
8. To treat fairly all persons regardless of such factors as race, religion, gender, disability, age, or origin;
9. To seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, and to conduct all communications within the generally accepted framework of courtesy and civility; and
10. To respect legitimate intellectual property rights, and to credit properly the contributions of others.

Annex F

Malaysia's participation in ISO and IEC

Table 1. Malaysia's participation in ISO

Member of TC/SC	S	P	O	Description
ISO/IEC JTC 1		P		Information Technology
ISO/IEC JTC 1/SC 2			O	Coded Character Sets
ISO/IEC JTC 1/SC 6			O	IT Interconnection, communications and System Information
ISO/IEC JTC 1/SC 7			O	Software and System Engineering
ISO/IEC JTC 1/SC 17		P		Cards and personal identification
ISO/IEC JTC 1/SC 22			O	Programming Languages, Their Environments and System Software Interfaces
ISO/IEC JTC 1/SC 24			O	Computer Graphics, Image Processing and Environmental Data Representation
ISO/IEC JTC 1/SC 25			O	Interconnection of Information Technology Equipment
ISO/IEC JTC 1/SC 27		P		IT Security Techniques
ISO/IEC JTC 1/SC 28			O	Computer Graphics and Multimedia
ISO/IEC JTC 1/SC 29			O	Coding of Audio, Picture, Multimedia and Hypermedia Information
ISO/IEC JTC 1/SC 31		P		Automatic Identification and Data Capture Techniques
ISO/IEC JTC 1/SC 34		P		Document Description And Processing Languages
ISO/IEC JTC 1/SC 36			O	Information Technology for Learning, Education and Training
ISO/IEC JTC 1/SC 37		P		Biometrics
ISO/TC 2			O	Fasteners
ISO/TC 5			O	Ferrous Metal Pipes and Metallic Fittings
ISO/TC 5/SC 5			O	Threaded Fittings, Solder Fittings, Welding Fittings, Pipe Threads, Thread Gauges
ISO/TC 5/SC 10			O	Metallic Flanges and Their Joints
ISO/TC 6		P		Paper, Board and Pulps
ISO/TC 6/SC 2			O	Test Methods and Quality Specifications for Paper and Board
ISO/TC 11		P		Boilers and Pressure Vessels
ISO/TC 17			O	Steel
ISO/TC 17/SC 16			O	Steels For The Reinforcement And Prestressing Of Concrete
ISO/TC 17/SC 17			O	Steel Wire Rod And Wire Products
ISO/TC 21			O	Equipment for Fire Protection and Fire Fighting
ISO/TC 21/SC 2			O	Manually Transportable Fire Extinguishers
ISO/TC 21/SC 3			O	Fire Detection and Alarm Systems

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
ISO/TC 21/SC 5			O	Fixed Firefighting Systems Using Water
ISO/TC 21/SC 6			O	Foam and Powder Media and Fixed Firefighting Systems Using Foam and Powder
<i>ISO/TC 22</i>		<i>P</i>		<i>Road Vehicles</i>
<i>ISO/TC 22 SC10</i>		<i>P</i>		<i>Impact Test Procedures</i>
<i>ISO/TC 22 SC 12</i>		<i>P</i>		<i>Passive Safety Crash Protection Systems</i>
<i>ISO/TC 22 SC 22</i>		<i>P</i>		<i>Motorcycles</i>
ISO/TC 25			O	Cast Irons and Pig Irons
ISO/TC 25/SC 1			O	Malleable Cast Irons
ISO/TC 26			O	Copper and Copper Alloys
ISO/TC 28			O	Petroleum Products and Lubricants
<i>ISO/TC 28/SC 2</i>		<i>P</i>		<i>Measurement of Petroleum and Related Products</i>
<i>ISO/TC 28/SC 5</i>		<i>P</i>		<i>Measurement of Refrigerated Hydrocarbon and Non-petroleum Based Liquefied Gaseous Fuels</i>
ISO/TC 30			O	Measurement of Fluid Flow in Closed Conduits
<i>ISO/TC 30/SC 5</i>		<i>P</i>		<i>Velocity and Mass Methods</i>
ISO/TC 31			O	Tyres, Rims and Valves
ISO/TC 31/SC 3			O	Passenger Car Tyres and Rims
ISO/TC 31/SC 4			O	Truck and Bus Tyres and Rims
ISO/TC 31/SC 5			O	Agricultural Tyres and Rims
ISO/TC 31/SC 6			O	Off-the-road Tyres and Rims
ISO/TC 31/SC 10			O	Cycle, Moped, Motorcycle Tyres and Rims
<i>ISO/TC 34</i>		<i>P</i>		<i>Food Products</i>
<i>ISO/TC 34/SC 10</i>		<i>P</i>		<i>Animal Feeding stuffs</i>
<i>ISO/TC 34/SC 11</i>		<i>P</i>		<i>Animal and Vegetable Fats and Oils</i>
<i>ISO/TC 34/SC 12</i>		<i>P</i>		<i>Sensory Analysis</i>
ISO/TC 35			O	Paints and Varnishes
ISO/TC 35/SC 2			O	Pigments and Extenders
ISO/TC 35/SC 9			O	General Test Methods for Paints and Varnishes
ISO/TC 35/SC 10			O	Test Methods for Binders for Paints and Varnishes
ISO/TC 35/SC 12			O	Preparation of Steel Substrates Before Application of Paints and Related Products
ISO/TC 35/SC 14			O	Protective Paint Systems for Steel Structures
ISO/TC 38			O	Textiles
<i>ISO/TC 44</i>		<i>P</i>		<i>Welding and Allied processes</i>
<i>ISO/TC 45</i>	<i>S</i>	<i>P</i>		<i>Rubber and Rubber Products</i>
<i>ISO/TC 45/SC 1</i>	<i>S</i>	<i>P</i>		<i>Hoses (Rubber and Plastics)</i>
<i>ISO/TC 45/SC 2</i>		<i>P</i>		<i>Testing and Analysis</i>
<i>ISO/TC 45/SC 3</i>		<i>P</i>		<i>Raw Materials (including Latex) for Use in the Rubber Industry</i>

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
<i>ISO/TC 45/SC 4</i>	<i>S</i>	<i>P</i>		<i>Products (Other than Hoses)</i>
ISO/TC 46			O	Information and Documentation
ISO/TC 47			O	Chemistry
<i>ISO/TC 51</i>		<i>P</i>		<i>Pallets for Unit Load Method of Materials Handling</i>
<i>ISO/TC 58</i>		<i>P</i>		<i>Gas Cylinders</i>
ISO/TC 58/SC 2			O	Cylinders Fittings
ISO/TC 58/SC 3			O	Cylinders Design
ISO/TC 58/SC 4			O	Operational Requirements for Gas Cylinders
<i>ISO/TC 59</i>		<i>P</i>		<i>Building Construction</i>
ISO/TC 59/SC 2			O	Terminology and Harmonization of Languages
<i>ISO/TC 59/SC 3</i>		<i>P</i>		<i>Functional/User Requirements and Performance in Building Construction</i>
<i>ISO/TC 59/SC 13</i>		<i>P</i>		<i>Organization of Information about Construction Works</i>
<i>ISO/TC 59/SC 14</i>		<i>P</i>		<i>Design Life</i>
ISO/TC 59/SC 15			O	Performance Criteria for Single Family Attached and Detached Dwellings
<i>ISO/TC 61</i>		<i>P</i>		<i>Plastics</i>
ISO/TC 61/SC 1			O	Terminology
<i>ISO/TC 61/SC 2</i>		<i>P</i>		<i>Mechanical Properties</i>
<i>ISO/TC 61/SC 5</i>		<i>P</i>		<i>Physical-Chemical Properties</i>
<i>ISO/TC 61/SC 9</i>		<i>P</i>		<i>Thermoplastics Materials</i>
<i>ISO/TC 61/SC 10</i>		<i>P</i>		<i>Cellular Plastics</i>
<i>ISO/TC 61/SC 11</i>		<i>P</i>		<i>Products</i>
ISO/TC 61/SC 13			O	Composites and Reinforcement Fibres
ISO/TC 67			O	Materials, Equipment and Offshore Structures for Petroleum, Petrochemical and Natural Gas Industries
<i>ISO/TC 67/SC 2</i>		<i>P</i>		<i>Pipeline Transportation Systems</i>
ISO/TC 67/SC 7			O	Offshore Structures For Petroleum And Natural Gas Industries
ISO/TC 68			O	Financial Services
<i>ISO/TC 69</i>		<i>P</i>		<i>Applications of Statistical Methods</i>
<i>ISO/TC 69/SC 4</i>		<i>P</i>		<i>Applications of Statistical Methods in Process Management</i>
<i>ISO/TC 69/SC 5</i>		<i>P</i>		<i>Acceptance Sampling</i>
<i>ISO/TC 69/SC 6</i>		<i>P</i>		<i>Measurement Methods and Results</i>
<i>ISO/TC 71</i>		<i>P</i>		<i>Concrete, Reinforced Concrete and Pre-stressed concrete</i>
ISO/TC 74			O	Cement and Lime
ISO/TC 77			O	Products in Fibre Reinforced Cement
ISO/TC 81			O	Common Names for Pesticides and Other Agrochemicals
ISO/TC 83			O	Sports and Recreational Equipment

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
<i>ISO/TC 84</i>		<i>P</i>		<i>Devices for Administration of Medicinal Products and Intravascular Catheters</i>
<i>ISO/TC 89</i>		<i>P</i>		<i>Wood-based Panels</i>
<i>ISO/TC 89/SC 1</i>		<i>P</i>		<i>Fibre Boards</i>
<i>ISO/TC 89/SC 2</i>		<i>P</i>		<i>Particle Boards</i>
<i>ISO/TC 89/SC 3</i>		<i>P</i>		<i>Plywood</i>
ISO/TC 91			O	Surface Active Agents
ISO/TC 92			O	Fire Safety
ISO/TC 92/SC 1			O	Fire Initiation and Growth
ISO/TC 92/SC 3			O	Fire Threat to People and Environment
ISO/TC 92/SC 4			O	Fire Safety Engineering
<i>ISO/TC 94</i>		<i>P</i>		<i>Personal Safety – Protective Clothing and Equipment</i>
<i>ISO/TC 96</i>		<i>P</i>		<i>Cranes</i>
<i>ISO/TC 96/SC 2</i>		<i>P</i>		<i>Terminology</i>
<i>ISO/TC 96/SC 3</i>		<i>P</i>		<i>Selection of Wire Ropes</i>
<i>ISO/TC 96/SC 4</i>		<i>P</i>		<i>Test Methods</i>
<i>ISO/TC 96/SC 5</i>		<i>P</i>		<i>Use, Operations and Maintenance</i>
<i>ISO/TC 96/SC 6</i>		<i>P</i>		<i>Mobile Cranes</i>
<i>ISO/TC 96/SC 7</i>		<i>P</i>		<i>Tower Cranes</i>
<i>ISO/TC 96/SC 8</i>		<i>P</i>		<i>Jib Cranes</i>
<i>ISO/TC 96/SC 9</i>		<i>P</i>		<i>Bridge and Gantry Cranes</i>
ISO/TC 98			O	Bases for Design of Structures
ISO/TC 98/SC 2			O	Reliability of Structures
ISO/TC 98/SC 3			O	Loads, Forces and Other Actions
ISO/TC 102			O	Iron Ore and Direct Reduced Iron
ISO/TC 102/SC 1			O	Sampling
ISO/TC 102/SC 2			O	Chemical Analysis
ISO/TC 102/SC 3			O	Physical Testing
<i>ISO/TC 104</i>		<i>P</i>		<i>Freight Containers</i>
<i>ISO/TC 104/SC 1</i>		<i>P</i>		<i>General Purpose Containers</i>
ISO/TC 104/SC 2			O	Specific Purpose Containers
<i>ISO/TC 104/SC 4</i>		<i>P</i>		<i>Identification and Communication</i>
ISO/TC 105			O	Steel Wire Ropes
ISO/TC 106			O	Dentistry
ISO/TC 111			O	Round Steel Link Chains, Chain Slings, Components and Accessories
ISO/TC 115			O	Pumps
ISO/TC 120			O	Leather
ISO/TC 120/SC 1			O	Raw Hides and Skins, Including Pickled Pelts
ISO/TC 120/SC 2			O	Tanned Leather
<i>ISO/TC 122</i>		<i>P</i>		<i>Packaging</i>

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
<i>ISO/TC 122/SC 3</i>		<i>P</i>		<i>Performance Requirements and Tests for Means of Packaging, Packages and Unit Loads (as Required by ISO/TC 122)</i>
ISO/TC 123			O	Plain Bearings
ISO/TC 126			O	Tobacco and Tobacco Products
ISO/TC 131			O	Fluid Power Systems
ISO/TC 131/SC 1			O	Terminology, Classification and Symbols
ISO/TC 131/SC 2			O	Pumps, Motors and Integral Transmissions
ISO/TC 131/SC 3			O	Cylinders
ISO/TC 131/SC 4			O	Connectors and Similar Products and Components
ISO/TC 131/SC 5			O	Control Products and Components
ISO/TC 131/SC 6			O	Contamination Control
ISO/TC 131/SC 7			O	Sealing Devices
ISO/TC 131/SC 8			O	Product Testing
ISO/TC 131/SC 9			O	Installations and Systems
ISO/TC 134			O	Fertilizers and Soil Conditioners
<i>ISO/TC 135</i>		<i>P</i>		<i>Non-destructive Testing</i>
<i>ISO/TC 135/SC 3</i>		<i>P</i>		<i>Ultrasonic Testing</i>
ISO/TC 135/SC 4			O	Eddy Current Methods
<i>ISO/TC 136</i>		<i>P</i>		<i>Furniture</i>
ISO/TC 137			O	Footwear Sizing Designations and Marking Systems
<i>ISO/TC 138</i>		<i>P</i>		<i>Plastics Pipes, Fittings and Valves for the Transport of Fluids</i>
<i>ISO/TC 138/SC 1</i>		<i>P</i>		<i>Plastics Pipes and Fittings for Soil, Waste and Drainage (including Land Drainage)</i>
<i>ISO/TC 138/SC 2</i>		<i>P</i>		<i>Plastics Pipes and Fittings for Water Supplies</i>
<i>ISO/TC 138/SC 3</i>		<i>P</i>		<i>Plastics Pipes and Fittings for Industrial Applications</i>
<i>ISO/TC 138/SC 4</i>		<i>P</i>		<i>Plastics Pipes and Fittings for the Supply of Gaseous Fuels</i>
<i>ISO/TC 138/SC 5</i>		<i>P</i>		<i>General Properties of Pipes, Fittings and Valves of Plastics Materials and their Accessories – Test Methods and Basic Specifications</i>
ISO/TC 138/SC 6			O	Reinforced Plastics Pipes and Fittings for all Applications
ISO/TC 138/SC 7			O	Valves and Auxiliary Equipment of Plastics Materials
ISO/TC 146			O	Air Quality
<i>ISO/TC 146/SC 2</i>		<i>P</i>		<i>Workplace Atmospheres</i>
<i>ISO/TC 146/SC 4</i>		<i>P</i>		<i>General Aspects</i>
ISO/TC 146/SC 5			O	Meteorology

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
ISO/TC 146/SC 6		P		Indoor Air
ISO/TC 147			O	Water Quality
ISO/TC 147/SC 1			O	Terminology
ISO/TC 147/SC 2			O	Physical, Chemical and Biochemical Methods
ISO/TC 147/SC 4			O	Microbiological Methods
ISO/TC 147/SC 5			O	Biological Methods
ISO/TC 147/SC 6			O	Sampling (General Methods)
ISO/TC 150		P		Implants and Surgery
ISO/TC 154			O	Processes, Data Elements and Documents in Commerce, Industry and Administration
ISO/TC 156			O	Corrosion of Metals and Alloys
ISO/TC 157	S	P		Mechanical Contraceptives
ISO/TC 159		P		Ergonomics
ISO/TC 159/SC 1		P		General Ergonomics Principles
ISO/TC 159/SC 3		P		Anthropometry and Biomechanics
ISO/TC 159/SC 4		P		Ergonomics of Human-System Interaction
ISO/TC 159/SC 5		P		Ergonomics of the Physical Environment
ISO/TC 164			O	Mechanical Testing of Metals
ISO/TC 165		P		Timber Structures
ISO/TC 166			O	Ceramic Ware, Glassware and Glass Ceramic Ware in Contact with Food
ISO/TC 176		P		Quality Management and Quality Assurance
ISO/TC 176/SC 1		P		Concepts and Terminology
ISO/TC 176/SC 2		P		Quality Systems
ISO/TC 176/SC 3		P		Supporting Technologies
ISO/TC 178		P		Lifts, Escalators and Moving Walks
ISO/TC 179			O	Masonry
ISO/TC 181		P		Safety of Toys
ISO/TC 184			O	Automation Systems and Integration
ISO/TC 184/SC 4			O	Industrial Data
ISO/TC 185			O	Safety Devices for Protection Against Excessive Pressure
ISO/TC 186			O	Cutlery and Table and Decorative Metal Hollow-ware
ISO/TC 189		P		Ceramic tile
ISO/TC 193			O	Natural Gas
ISO/TC 194		P		Biological Evaluation Of Medical Devices
ISO/TC 198			O	Sterilization of Health Care Products
ISO/TC 199		P		Safety of Machinery
ISO/TC 201			O	Surface Chemical Analysis
ISO/TC 203			O	Technical Energy Systems
ISO/TC 204		P		Intelligent Transport Systems

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
ISO/TC 205			O	Building Environment Design
<i>ISO/TC 206</i>		<i>P</i>		<i>Fine Ceramics</i>
<i>ISO/TC 207</i>		<i>P</i>		<i>Environmental Management</i>
<i>ISO/TC 207/SC 1</i>		<i>P</i>		<i>Environmental Management Systems</i>
<i>ISO/TC 207/SC 2</i>		<i>P</i>		<i>Environmental Auditing and Related Environmental Investigations</i>
<i>ISO/TC 207/SC 3</i>		<i>P</i>		<i>Environmental Labelling</i>
<i>ISO/TC 207/SC 4</i>		<i>P</i>		<i>Environmental Performance Evaluation</i>
<i>ISO/TC 207/SC 5</i>		<i>P</i>		<i>Life Cycle Assessment</i>
<i>ISO/TC 207/SC 7</i>		<i>P</i>		<i>Green House Gas Management and Related Activities</i>
ISO/TC 209			O	Cleanrooms and Associated Controlled Environments
<i>ISO/TC 210</i>		<i>P</i>		<i>Quality Management and Corresponding General Aspects for Medical Devices</i>
<i>ISO/TC 211</i>		<i>P</i>		<i>Geographic Information/Geomatics</i>
<i>ISO/TC 212</i>		<i>P</i>		<i>Clinical Laboratory Testing and In Vitro Diagnostic Test Systems</i>
ISO/TC 214			O	Elevating Work Platforms
<i>ISO/TC 215</i>		<i>P</i>		<i>Health Informatics</i>
ISO/TC 216			O	Footwear
<i>ISO/TC 218</i>		<i>P</i>		<i>Timber</i>
<i>ISO/TC 221</i>			O	<i>Geosynthetics</i>
ISO/TC 222			O	Personal Financial Planning
ISO/TC 223			O	Societal Security
<i>ISO/TC 224</i>		<i>P</i>		<i>Service Activities Relating to Drinking Water Supply Systems and Wastewater Systems – Quality Criteria of the Service and Performance Indicators</i>
<i>ISO/TC 227</i>		<i>P</i>		<i>Springs</i>
<i>ISO/TC 228</i>		<i>P</i>		<i>Tourism and Related Services</i>
<i>ISO/TC 229</i>		<i>P</i>		<i>Nanotechnologies</i>
<i>ISO/TC 232</i>		<i>P</i>		<i>Learning Services for Non-Formal Education and Training</i>
<i>ISO/TC 234</i>		<i>P</i>		<i>Fisheries and Aquaculture</i>
ISO/TC 236			O	Project Management
ISO/TC 237			O	Project Committee – Exhibition Terminology
<i>ISO/TC 238</i>		<i>P</i>		<i>Solid Biofuels</i>
<i>ISO/TC 240</i>	<i>S</i>	<i>P</i>		<i>Project Committee: Product Recall</i>
<i>ISO/TC 241</i>		<i>P</i>		<i>Project Committee: Road-Traffic Safety Management System</i>
<i>ISO/TC 242</i>		<i>P</i>		<i>Project Committee: Energy Management</i>
<i>ISO/TC 243</i>		<i>P</i>		<i>Project Committee: Consumer Product Safety</i>

Table 1. Malaysia's participation in ISO (continued)

Member of TC/SC	S	P	O	Description
ISO/TC 244			O	Furnaces and Associated Thermal Processing Equipment
ISO/TC 247			O	Fraud Countermeasures and Controls
<i>ISO/CASCO</i>		<i>P</i>		<i>Conformity Assessment</i>
<i>ISO/COPOLCO</i>		<i>P</i>		<i>Committee on Consumer Policy</i>
<i>ISO/DEVCO</i>		<i>P</i>		<i>Committee on Developing Countries Matters</i>
<i>ISO/TMB/RM</i>		<i>P</i>		<i>Risk Management</i>
<i>ISO/TMB/SR</i>		<i>P</i>		<i>Social Responsibility</i>
ISO/TS/P 205			O	Industrial Furnaces And Associated Thermal Processing Equipment

NOTE:

S – Secretariat; P – Participating; O – Observer

Table 2. Malaysia's participation in IEC

Member of TC/SC	S	P	O	Description
TC 1			O	Terminology
TC 3 SC 3C SC 3D			O O O	Information structures, documentation and graphical symbols Graphical symbols for use on equipment Data sets for libraries
TC 7			O	Overhead electrical conductors
TC 8			O	Systems aspects for electrical energy supply
TC 16			O	Basic and safety principles for man-machine interface, marking and identification
TC 17 SC 17A SC 17B SC 17C SC 17D			O O O O O	Switchgear and controlgear High-voltage switchgear and controlgear Low-voltage switchgear and controlgear High-voltage switchgear and controlgear assemblies Low-voltage switchgear and controlgear assemblies
TC 20			O	Electric cables
TC 21 SC 21A			O O	Secondary cells and batteries Secondary cells and batteries containing alkaline or other non-acid electrolytes
TC 22 SC 22E SC 22F SC 22G			O O O O	Power electronic systems and equipment Stabilized power supplies Power electronics for electrical transmission and distribution systems Adjustable speed electric drive systems incorporating semiconductor power converters
TC 23 SC 23A SC 23B SC 23C SC 23E SC 23F SC 23G SC 23H SC 23J		P	O O O O O O O O O	Electrical accessories Cable management systems Plugs, socket-outlets and switches World-wide plug and socket-outlet systems Circuit-breakers and similar equipment for household use Connecting devices Appliance couplers Industrial plugs and socket-outlets Switches for appliances
TC 25			O	Quantities and units
TC 31		P		Equipment for explosive atmospheres

Table 2. Malaysia's participation in IEC (continued)

Member of TC/SC	S	P	O	Description
SC 31G		P		<i>Intrinsically-safe apparatus</i>
SC 31J		P		<i>Classification of hazardous areas and installation requirements</i>
SC 31M			O	Non-electrical equipment and protective systems for explosive atmospheres
TC 32			O	Fuses
SC 32A			O	High-voltage fuses
SC 32B			O	Low-voltage fuses
SC 32C			O	Miniature fuses
TC 33			O	Power capacitors
TC 34			O	Lamps and related equipment
SC 34A			O	Lamp
SC 34B			O	Lamp caps and holders
SC 34C			O	Auxiliaries for lamps
SC 34D			O	Luminaires
TC 35			O	Primary cells and batteries
TC 36			O	Insulators
SC 36A			O	Insulated bushings
SC 36B			O	Insulators for overhead lines
SC 36C			O	Insulators for substations
TC 38			O	Instrument transformers
TC 40			O	Capacitors and resistors for electronic equipment
TC 47			O	Semiconductor devices
SC 47A			O	Integrated circuits
TC48			O	Electromechanical components and mechanical structures for electronic equipment
SC 48B			O	Connectors
SC 48D			O	Mechanical structures for electronic equipment
TC 55			O	Winding wires
TC 57			O	Power system management and associated information exchange
TC 59			O	Performance of household electrical appliances
SC 59A			O	Electric dishwashers
SC 59C			O	Heating appliances
SC 59D			O	Home laundry appliances
SC 59F			O	Floor treatment appliances
SC 59L			O	Small household appliances

Table 2. Malaysia's participation in IEC (continued)

Member of TC/SC	S	P	O	Description
TC 61		P		<i>Safety of household and similar electrical appliances</i>
SC 61B			O	Safety of microwave ovens
SC 61C		P		<i>Household appliances for refrigeration</i>
SC 61D			O	Appliances for air-conditioning for household and similar purposes
SC 61E			O	Safety of electrical commercial catering equipment
SC 61F			O	Safety of hand-held motor-operated electric tools
SC 61H			O	Safety of electrically-operated farm appliances
SC 61J			O	Electrical motor-operated cleaning appliances for commercial use
TC 62		P		<i>Electrical equipment in medical practice</i>
SC 62A		P		<i>Common aspects of electrical equipment used in medical practice</i>
SC 62B		P		<i>Diagnostic Imaging Equipment</i>
SC 62C		P		<i>Equipment for radiotherapy, nuclear medicine and radiation dosimetry</i>
SC 62D		P		<i>Electromedical equipment</i>
TC 64		P		<i>Electrical installations and protection against electric shock</i>
SC 65A			O	System aspects
SC 65C			O	Industrial networks
TC 70			O	Degrees of protection provided by enclosures
TC 77		P		<i>Electromagnetic compatibility</i>
SC 77A		P		<i>Low frequency phenomena</i>
TC 81			O	Lightning protection
TC 82			O	Solar photovoltaic energy systems
TC 110			O	Flat panel display devices
TC 111		P		<i>Environmental standardization for electrical and electronic products and systems</i>
TC 113		P		<i>Nanotechnologies standardization for electrical and electronics products and system</i>
CISPR			O	International special committee on radio interference
CIS/A			O	Radio-interference measurements and statistical methods

Table 2. Malaysia's participation in IEC (continued)

Member of TC/SC	S	P	O	Description
CIS/B			O	Interference relating to industrial, scientific and medical radio-frequency apparatus, to other (heavy) industrial equipment, to overhead power lines, to high voltage equipment and to electric traction
CIS/D			O	Electromagnetic disturbances related to electric/electronic equipment on vehicles and internal combustion engine powered devices
CIS/F			O	Interference relating to household appliances tools, lighting equipment and similar apparatus
CIS/I			O	Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers

NOTE:

S – Secretariat; P – Participating; O – Observer



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