





**Strategising ...**



## Cover Rationale

STANDARDS MALAYSIA defines strategic direction and provides the necessary organisational support for all its divisions to achieve the organisation's vision and mission through effective policies, guidelines and co-ordination. Strategising and forging synergies across all divisions to move together towards one common direction have paved the way for us to progress boldly forward and reach even new heights.

**... to Reach New Heights**



①

To **add value to the nation's economic and social well-being** through timely delivery of sufficient numbers of market relevant Malaysian Standards (MS) and provide global market linkages through stakeholders participation and support for standardisation at national, regional and international levels.

②

To **enhance global acceptance of Malaysian products and services** through credible and internationally recognised accreditation.

③

To **position STANDARDS MALAYSIA and Malaysia as a leader/international contributor** in standardisation and accreditation at both national and international levels.

④

To **build capacity and capability of STANDARDS MALAYSIA** and to mobilise Malaysia's pool of technical resources for standardisation and accreditation activities.

**At STANDARDS MALAYSIA, we strive for innovative strategies to further build our strength that will enable us to continuously uphold and promote STANDARDS and ACCREDITATION. We have set 2008 as our year of STRATEGISING to expedite the achievement of our five-year Strategic Plan (2006-2010):**

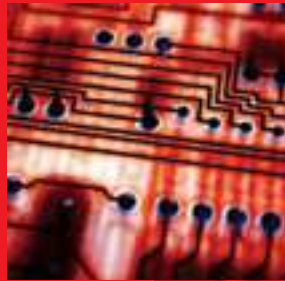


At the same time, we remain steadfast in carrying out **OUR MISSION:**

*"To provide credible standardisation and accreditation of conformity assessment services in order to facilitate Malaysian products and services to be competitive globally; to support Government policy makers and regulators; and to advance quality of life of Malaysians"*

By continuing to implement this Strategic Plan, we have paved the way **TO REACH NEW HEIGHTS** as we further advance to achieve **OUR VISION:**

*"To lead the nation to be an effective global player in Standards & Accreditation by 2020. STANDARDS MALAYSIA will mobilise the nation's human capital to effectively represent Malaysia's interest in Standards & Accreditation at the international level"*



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### KEY STRATEGIES

- Adding value to the nation's economic and social well-being
- Enhancing global acceptance of Malaysian products and services
- Positioning STANDARDS MALAYSIA and Malaysia as a leader/international contributor
- Building capacity and capability of STANDARDS MALAYSIA

OTHER MAJOR ACHIEVEMENTS AND ACTIVITIES

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42 ABBREVIATIONS



# SETTING STRATEGIC POLICIES

The Ministry of Science, Technology and Innovation (MOSTI) sets the policies and priorities as well as manages all aspects of the advancement of Science, Technology and Innovation (ST&I) in Malaysia. These encompass the areas of Standardisation and Accreditation that come under the purview of STANDARDS MALAYSIA, an agency under MOSTI. STANDARDS MALAYSIA is the sole National Standards and Accreditation Body responsible for overseeing standards and accreditation activities in Malaysia under the direction of MOSTI and functions with the guidance, advice and recommendation of the Malaysian Standards and Accreditation Council (MSAC). STANDARDS MALAYSIA would like to acknowledge the contributions of our two key leaders who have set the direction and endorse strategic policies that enabled us to achieve commendable performance in 2008.

## PLATFORM FOR INNOVATIVE STRATEGIES



### Minister of Science, Technology and Innovation

Y.B. Datuk Dr.  
Maximus Johnity  
Ongkili

Minister of Science, Technology and Innovation, Y.B. Datuk Dr. Maximus Johnity Ongkili leads MOSTI in forging synergies across all the departments and agencies within the ministry as we move forward together as an organisation and strive for innovative strategies to help develop a knowledge-based economy. Developing such an economy is an important strategy to enhance the nation's capability and efficiency in ST&I, which is crucial in Malaysia's efforts to achieve its vision of becoming a developed nation. MOSTI sets the strategic policies and establishes a strong foundation as well as the necessary platform that enables every organisation under its umbrella to deliver innovative strategies to achieve the ministry's set objectives as outlined under the Ninth Malaysia Plan (2006-2010). One of the key objectives is to develop a more innovative Malaysia that will allow the country to be more competitive globally.

As a department within MOSTI, STANDARDS MALAYSIA is also very much involved in sharpening Malaysia's competitiveness through the advancement of ST&I. Our role is especially crucial in helping to strengthen the country's knowledge infrastructure by driving the development and attainment of internationally recognised standards and the use of accreditation practices to ensure global acceptance of Malaysian products and services. Standards and accreditation have proven to be an important tool to help propel the entry and acceptance of Malaysian products and services in international markets. Conformance to internationally recognised standards and accreditation practices also helps to hone Malaysia's competitive edge in the global marketplace. In this respect, we have embarked on strategies that will further pave the way for us to strengthen our position in the global standards and accreditation fields. We have developed a framework for driving growth initiatives worldwide and expanding our portfolio into new markets. In doing so, we have targeted foreign countries with high growth potential that can bring benefits with our involvement. All these are part and parcel of our strategies which are drawn under the guidance of MOSTI and endorsed by the Minister who himself has taken much interest in our progress. We in turn have sought to achieve clarity in strategies as well as transparency of regulations and policies. At the same time, we have also been consistently encouraged to equip ourselves with the necessary knowledge, skill and experience in order to be more innovative, productive and competitive. With the support received from the highest leadership of MOSTI, STANDARDS MALAYSIA has been able to make positive contributions to ST&I and remain highly relevant in achieving the national agenda.



### Chairman, Malaysian Standards and Accreditation Council

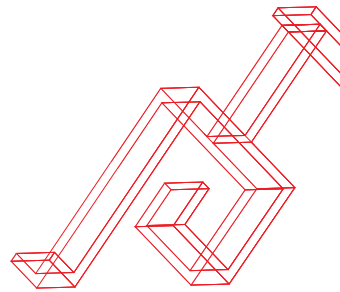
Y.Bhg. Tan Sri Datuk  
Dr. Ahmad Tajuddin Ali

## WORKING TOGETHER

The MSAC helmed by its Chairman, Y.Bhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali has played key roles in drawing strategic plans for STANDARDS MALAYSIA to deliver results in key areas of standardisation and accreditation. The key deliverables encompass, among others, the development of MS; promotion of the importance of standards and accreditation practices, measurement of the impact of standardisation and accreditation activities on the Malaysian economy; and effective participation in both standardisation and accreditation activities at national and international levels. Support and guidance by MSAC ensure that STANDARDS MALAYSIA continues to achieve a high level of performance and meets our set objectives. One of these is to help push Malaysia to compete in a global environment that is increasingly driven by innovation. This requires strategic thinking and instituting change as well as making improvements in many areas, including the way we add value to products, processes, technologies and services. On our part, we use standards and accreditation as effective tools to enhance the marketability of Malaysian products and services. This is also possible with the support we receive from regulators and enforcement agencies with whom we work closely to develop, promote and improve the country's standards and accreditation practices.

Enhancement of relationships with MSAC as well as forging strategic partnerships with regulators, enforcement agencies, other Government departments, industry associations, consumer groups and non-governmental organisations provide vital input and advice on a multitude of standardisation and accreditation matters. The participation of many has allowed us to constantly rethink our approaches, set priorities and devise more strategic initiatives. Actions have been initiated to foster an environment of close collaboration that provides the impetus for innovation to flourish and subsequently contributes to realising the economic objectives of the country.

STANDARDS MALAYSIA acknowledges the roles and contributions of the Minister of Science, Technology and Innovation and the MSAC Chairman and members of MSAC in advancing the country's standardisation and accreditation practices. All have played important roles in formulating policies, programmes and activities related to standardisation and accreditation as well as promoting efficiency and transparency within STANDARDS MALAYSIA. Carrying our mission and meeting set objectives are an increasingly challenging responsibility but we have made some great achievements in 2008 and in previous years as well. None of this could have happened without the guidance and support of everyone at MOSTI and MSAC from the highest to the lowest level. Given the continued support and involvement of everyone, we will carry on to build on our successes and further focus on developing and promoting standards and accreditation that will bring greater benefits to the nation.



## ACKNOWLEDGEMENT





DRIVING  
STRATEGIC  
INITIATIVES



# STANDARDS MALAYSIA: The Leadership

Holding the top rein of STANDARDS MALAYSIA are leaders at Ministerial and Council levels who drive the entire organisation to implement policies based on strategic initiatives that meet national objectives of achieving greater excellence through the development of ST&I. The strategies are then driven by key executives of STANDARDS MALAYSIA supported by the organisation's various divisions.

## MINISTERIAL AND COUNCIL LEADERS:

**Y.B. Datuk Dr. Maximus  
Johnity Ongkili**  
*Minister of Science,  
Technology and Innovation*



**Y.Bhg. Dato' Abdul Hanan  
Alang Endut**  
*Secretary General, Ministry  
of Science, Technology and  
Innovation*



**Y.Bhg. Tan Sri Datuk  
Dr. Ahmad Tajuddin Ali**  
*Chairman, Malaysian  
Standards and  
Accreditation Council*



## KEY EXECUTIVES OF STANDARDS MALAYSIA



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(From August 2008 – till now)



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### MEMBERS OF MSAC

- Y.Bhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali • Y.Bhg. Dato' Abdul Hanan b. Alang Endut • Y.Bhg. Tan Sri Dato' Hj. Mohd. Ramli Kushairi • Y.Bhg. Hj. Yahaya b. Ahmad • Y.Bhg. Dato' Pian b. Sukro • Y.Bhg. Datuk Ir. Hamzah b. Hasan • Y.Bhg. Dato' Mohd. Yusof Hitam • Y.Bhg. Datuk N. Marimuthu • Mr. Mohamed Nor b. Abd. Aziz • Prof. Dr. Ho Chee Cheong • Ir. Dr. Andy K.H. Seo • Mrs. Rokhoun Nafsiah bt. Abd. Rashid • Mrs. Harjit Kaur a/p Chand Singh • Mrs. Zita Hj. Mohd. Fahmi and Mr. Harith Siddik.

**Ir. Mah Lok Abdullah**  
MyNAC Chairman

**Y.Bhg. Tan Sri Dato' Hj. Mohd. Ramli Kushairi**  
MyNSC Chairman

**Y.Bhg. Ir. (Dr.) Datuk Mohd. Annas Mohd. Nor**  
MyENC Chairman

**Y.Bhg. Datuk Dr. Noor Hisham b. Abdullah**  
MyNMTAC Chairman



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(from April 2008 – till now)

IMPLEMENTING  
INNOVATIVE  
STRATEGIES





# OPERATIONAL REPORT



## HIGHLIGHTS BY STANDARDS MALAYSIA'S DIRECTOR GENERAL

In our efforts to make further advancement in standards and accreditation in 2008, we were aware of the crucial needs to be driven by innovative strategies and moved in tandem with the national agenda of transforming the country into a knowledge-based economy. STANDARDS MALAYSIA is very much part of the "knowledge infrastructure" as we are instrumental in devising and recommending policies as well as strategies pertaining to standards and accreditation. We are also responsible for the attainment of recognised standards and the utilisation of accreditation practices to enable the country to deliver globally accepted products and services. Standards and accreditation have been recognised as powerful tools to facilitate the entry and acceptance of Malaysian products and services in international markets. Through careful planning and strategising, we have made inroads into the global community.

In devising our strategies, we considered many factors in accordance to our key strategies as spelt out in our five-year Strategic Plan for 2006-2010:

- **To add value to the nation's economic and social well-being**

This can be done through the timely delivery of sufficient numbers of market relevant MS and forging global market linkages through stakeholders' participation and support for standardisation at national, regional and international levels.

- **To enhance global acceptance of Malaysian products and services**

The acceptance of Malaysian products and services globally can be effectively driven by achieving credible and internationally recognised accreditation as well as maintaining active participation in conformity assessment activities.

- **To position STANDARDS MALAYSIA and Malaysia as a leader/international contributor**

The move to position STANDARDS MALAYSIA and the country as a leader or international contributor in standardisation and accreditation at both national and international levels is crucial to help propel Malaysia in becoming a developed nation.

- **To build capacity and capability of STANDARDS MALAYSIA**

Building capacity and capability involves the mobilisation of Malaysia's pool of managerial and technical resources for standardisation and accreditation activities. To compete globally, we have to equip ourselves with the knowledge, skill and expertise to reach new heights.

**STANDARDS MALAYSIA** is very much part of the “knowledge infrastructure” as we are instrumental in devising and recommending policies as well as strategies pertaining to standards and accreditation. We are also responsible for the attainment of recognised standards and the utilisation of accreditation practices to enable the country to deliver globally accepted products and services.

After having established the necessary infrastructure to advance standards and accreditation in the country as well as making progress in many areas including holding Secretariat positions in international standards organisations and becoming active members and signatories to Multilateral Recognition Arrangements (MLAs) and Mutual Recognition Arrangements (MRAs) to various international bodies, it was timely for us in 2008 to focus on making greater inroads internationally and strengthening our position in the global standards and accreditation arena. This required us to strengthen our business development and strategic planning, derive better impact from marketing activities and develop a knowledge centre that allows us instant and easy access to information relevant to all our activities.

#### **BUSINESS DEVELOPMENT AND STRATEGIC PLANNING**

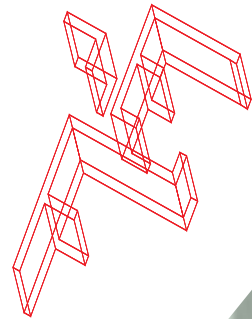
In 2008, we closely aligned our moves to implement the following:

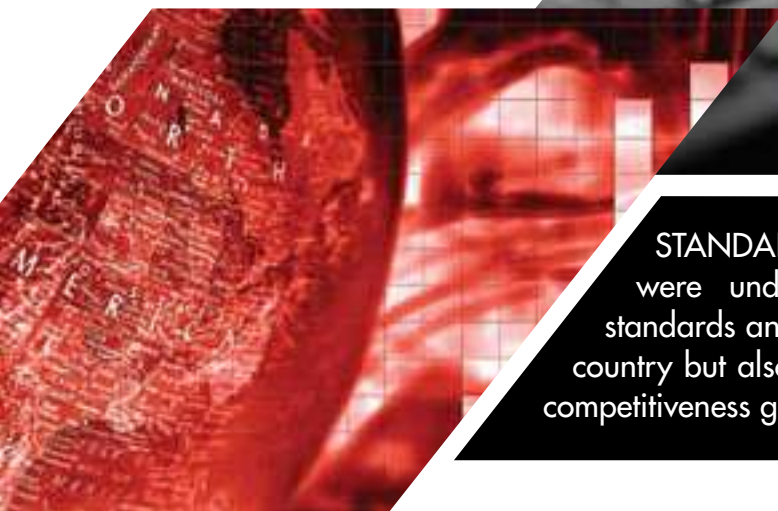
- Develop a framework for driving growth initiatives worldwide, including assessing our portfolio for expansion into new markets. This has a two-prong objectives:
  - To support the National Innovation Agenda particularly in initiatives to undertake “international scanning” of new technologies related to standards and accreditation.
  - To identify new technologies and their potential for adaptation to existing standards.
- Provide linkage and nurture strong collaboration and relationship with foreign standardisation and accreditation organisations/associations/bodies with the objectives of becoming a member of the Technical Management Board and Council Member of ISO, IEC and other bodies as well as making MS as International Standards where relevant.
- Target foreign countries with high growth profiles and probability of benefiting from involvement in the standards economy. This is aimed at promoting MS to third world countries and member countries of the Organisation of Islamic Conference (OIC) so as to adopt MS to become their national standards.

#### **STRATEGIC MANAGEMENT AND MARKETING**

**STANDARDS MALAYSIA** continued with efforts to enhance awareness on standardisation and accreditation activities at national and international levels through various marketing and promotional activities as well as strengthening collaboration with national-level stakeholders. In addition, the promotion of indigenous standards to become international standards was intensified. In the area of information and knowledge enhancement, the provision of a better reference site for standards and accreditation fields was established via the Information Resource Centre (IRC) services and Information Technology (IT) services. The **STANDARDS MALAYSIA**'s portal was also planned to be in line with the Guidelines for myGovernment Portal and the Public Sector Agencies' Web/Portal.

*A strong management team.*





STANDARDS MALAYSIA's marketing activities were undertaken to not only promote standards and accreditation activities in the country but also to strengthen the country's competitiveness globally.

STANDARDS MALAYSIA's marketing activities were undertaken to not only promote standards and accreditation activities in the country but also to strengthen the country's competitiveness globally. This also involved the promotion of STANDARDS MALAYSIA as a "brand" and enhancing public awareness on the organisation's roles and functions as well as the importance of standards and accreditation in helping to ensure the well-being of the nation. STANDARDS MALAYSIA also continued its initiatives in promoting the use of MS and accreditation services nationally, regionally and globally with the ultimate aim of achieving a high credibility status in both areas of standards and accreditation. In relation to this aim, it was also crucial for STANDARDS MALAYSIA to continuously form and maintain smart partnerships with many external organisations such as trade associations, professional bodies, Government departments and agencies and Non-Governmental Organisations (NGOs).

#### REMAINING ON COURSE

STANDARDS MALAYSIA's achievements in 2008 were testimony to our ability to remain on course with our plans and strategies. These essentially covered the areas of MS development and promotion; strengthening national standards development infrastructure; development of accreditation system for standards development to ensure compliance to relevant standards and policy guidelines; and the undertaking of a study to ascertain the impact of standards and accreditation to the country's economic development and the well-being of the nation. In addition, STANDARDS MALAYSIA remained committed to developing industry-driven standards and accreditation schemes. In 2008, priority was given to the Halal industries in support of the initiative to develop Malaysia as a Halal Hub as well as to the Electrical and Electronic Industries, which were two high growth economic areas.

While we made commendable progress in 2008, we also have to address issues and challenges which, wherever possible, were turned into opportunities for us to move forward and remain focused on our goals. Among the key challenges were the harmonisation of Halal standards within the OIC countries with different levels of acceptance and the recognition and acceptance of STANDARDS MALAYSIA's accredited test reports by foreign regulators. We also have to deal with the presence of unaccredited Certification Bodies (CBs) in the market since accreditation is not mandatory. Discussions were held with accredited CBs as well as with the Ministry of International Trade and Industry (MITI) on ways to improve the situation. There was also a need to increase greater awareness on accreditation programmes and among the measures taken were to hold promotional programmes to highlight the accreditation process

and the benefits of accreditation as well as participation in MRA/MLA. STANDARDS MALAYSIA will continue to emphasise on making accreditation more readily acceptable by the industry so that Malaysian products and services will receive greater acceptance and recognition in the global markets.

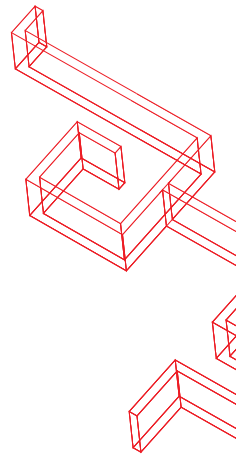
Closer to home, STANDARDS MALAYSIA continues to be driven by its people, which are the greatest asset of the organisation. While recognising this fact, we also acknowledge that it is also people that pose a strong challenge in order for us to reach greater heights. Hence, we continued to focus on enhancing our human capital in 2008. We embarked on many people enhancement programmes including providing training and exposure both locally and overseas to enable them to sharpen their competency and knowledge as well as to keep abreast with standards development, new technologies, trade and economic environment. The human capital resources in STANDARDS MALAYSIA are categorised by top management level, managerial and professional and support group. In 2008, we achieved 100% in filling up positions in the top management level and 81.48% in the support group. The filled-up positions for the managerial and professional category was lower at 80.49% indicating the difficulty in engaging people with the required qualifications, experience, competency and skills for this specialised category. In financial management, STANDARDS MALAYSIA continued to exercise prudence and in so doing, continued to perform well in 2008. In terms of operational expenditure, STANDARDS MALAYSIA used 98.66% of the revised allocation of RM17.8 million for its operations, comprising expenditure for emolument, services, assets and grants. As for development expenditure, 96.10% of the allocation of RM9.5 million were used for development of standards, proficiency testing for calibration under the Laboratory Accreditation Scheme of Malaysia (*Skim Akreditasi Makmal Malaysia – SAMM*), study on the impact of standards and accreditation to the country's

economic development and the well-being of the nation and upgrading of infrastructure. Total revenue collected in 2008 amounted to RM2.4 million from fees for accreditation schemes, processing fees, sales of documents and other miscellaneous sources.

Looking forward into the future, STANDARDS MALAYSIA will remain focused on implementing all strategies as spelt out in our Strategic Plan 2006-2010, which was approved under the Ninth Malaysia Plan and which formed the main backbone of the Annual Report for 2008. The details of our achievements for the year are outlined in the rest of the sections of this report. It is imperative for us to mention that the path to success has been guided by a good mix of people comprising stakeholders, industry partners and all staff members, each contributing their own expertise and experience in a broad spectrum of specialised areas that augured well for the advancement of the country's standards and accreditation.



1. Seminar participation is one of the ways to enhance staff's knowledge and skills.
2. Training programmes are conducted regularly.
3. ACB Training on NDT Personnel Certification is one of the training programmes conducted.





## KEY STRATEGIES

### Adding Value to the Nation's Economic and Social Well-being



STANDARDS MALAYSIA helps to foster the well-being of the people of Malaysia by utilising standards as a strategic instrument to address the vital concerns of safety, quality and environmental protection. Standards also serve as measurements of the level of performance of products, processes and services vital for the country's economic well-being. The nation's economic efficiency is further improved through facilitating the interchangeability of components, materials and practices. In addition, accreditation ensures the credibility of conformity assessment bodies and their results. The effective utilisation of standards and the adoption of transparent accreditation practices protect the interests of the people, industries and the nation as a whole.

Excellence in standardisation and accreditation efforts have helped international acceptance of Malaysian made products and services, bringing growth to the nation's trade and commerce and improving the economy. As part of STANDARDS MALAYSIA's key strategies of contributing towards the nation's economic and social well-being, we implemented several activities in 2008 as follows:

- **Study on the Impact of Standards and Accreditation to the Economy of Malaysia**

A two-year study on the impact of standards and accreditation to the economy was completed in 2008. The main outcome of the study which began in 2007 was the production of a set of indicators that showed how standards and accreditation contributed to the economic development and well-being of the nation.

- **Major Role in Free Trade Agreements Negotiations**

Free Trade Agreements (FTAs) help induce foreign investment, thus enhancing the national economy. STANDARDS MALAYSIA continued to play a major role in 2008 by leading bilateral and multilateral negotiations for FTAs, specifically for the Technical Barrier to Trade (TBT) Chapter in relevant negotiations, as follows:

- **ASEAN – Australia/New Zealand:** Completed drafting document text on Standards, Technical Requirements and Conformity Assessment Procedures.
- **ASEAN-Japan:** Negotiation was completed and signed on April 14, 2008. STANDARDS MALAYSIA was appointed as Chair of the Sub-Committee on this TBT Chapter in December 2008.
- **Malaysia-United States (US):** The 8th round of negotiation was held on July 14-18, 2008 in Washington, United States but STANDARDS MALAYSIA was not represented at this meeting.
- **Malaysia-Chile:** The 4th round of negotiation was held on October 22-24, 2008 in Santiago, Chile but STANDARDS MALAYSIA was not represented at this meeting.

STANDARD MALAYSIA's active involvement in FTA negotiations also included the implementation of completed FTAs which continued to be pursued in 2008.

Excellence in standardisation and accreditation efforts have helped international acceptance of Malaysian made products and services, bringing growth to the nation's trade and commerce and improving the economy.

• **Active Contribution to Priority Industries**

STANDARDS MALAYSIA continued to place emphasis on enhancing the relevance of standards and accreditation in industries with the ultimate aim of making positive contributions towards the performance of the Malaysian economy. Several industries were given priority in 2008, as follows:

- **Halal Industry:** The halal industry has tremendous potential for growth. The development of standards for halal products is one of the initiatives of the Malaysian Government in providing Malaysia's technical expertise and sound knowledge on Halal. STANDARDS MALAYSIA has been active in promoting the development of standards and accreditation in the industry to support the initiative in positioning Malaysia as the World Halal Hub. STANDARDS MALAYSIA is representing Malaysia in the Standardisation Expert Group (SEG) at OIC level and STANDARDS MALAYSIA helps ensure the country's active participation in the group to safeguard the national interests towards Halal.



- **Electrical and Electronic Industry:** This industry remains as one of the major contributors to the nation's economy. In August 2008, Malaysia

was accepted as member of the IEC Scheme for Certification to Standards Relating to Equipment for use in Explosive Atmosphere (IECEX). The benefits of participating in the IECEX system are to facilitate international trade in equipment and services for use in explosive atmospheres, while maintaining the required level of safety; reduce testing and certification costs to manufacturer; reduce time to market; increase international confidence in the product assessment process; have one international database listing; maintain international confidence in equipment and services covered by IECEX Certification; and emphasise on the safety of personnel (engineers and technicians) in Ex (explosive atmospheres) area.

- **Chemicals Industry:**

The implementation of the European Union's (EU) regulation on chemicals and their safe use under the Registration, Evaluation and Authorisation of Chemicals (REACH) programme has brought many new changes to the chemicals industry.



In light of this, STANDARDS MALAYSIA has made it a priority to help manufacturers, importers and users of chemicals to be aware of these new regulations and how to comply with them. Training and awareness programmes for inspectors as well as those pertaining to test facilities on the Organisation for Economic Cooperation and Development (OECD) Good Laboratory Practices (GLP) were conducted by STANDARDS MALAYSIA, which also identified potential inspectors and test facilities for the GLP programme.

- **Food Industry:** There was increased attention on food safety especially with the melamine scare and EU ban on Malaysian seafood that happened in 2008. Food safety can be safeguarded through the adoption and application of standards that integrate the Hazard Analysis and Critical Control Point (HACCP) throughout the entire food production process. As for accreditation, plans were made to initiate the MLA for Food Safety Management Systems (FSMS) at International level. In ensuring that the country's food industry was geared towards this direction, STANDARDS MALAYSIA started the new accreditation programme for FSMS certification based on ISO/TS 22003 on September 15, 2008, and also accredited one CB to carry out certification activities.

## Enhancing Global Acceptance of Malaysian Products and Services

STANDARDS MALAYSIA recognises the importance of effectively using standards and accreditation to enhance the acceptance of Malaysian products and services in global markets. As such, STANDARDS MALAYSIA defines the quality, safety and compatibility requirements for a massive range of Malaysian products with the primary aim of gaining global consumer confidence. By so doing, STANDARDS MALAYSIA helps compel Malaysian industries to achieve high product quality and safety standards as well as provide quality services that meet the discerning international requirements. Both standards and accreditation were “tools” used to attain this objective, as elaborated below:

### • Development of MS

The adoption of relevant international standards as MS is vital to increase global acceptance of Malaysian products and services, yet the standards developed must also be market-driven and fit national objectives. As such, STANDARDS MALAYSIA continued to strengthen its capability and capacity in order to achieve targets set in standards development. In 2008, monthly task force meetings were conducted to supervise and support SIRIM as the standards development agency in developing standards to meet national requirements. A total of 577 MS were developed in 2008, including 457 new MS and 120 revised MS.

### • Enhancement of Accreditation Services

STANDARDS MALAYSIA also has the role to enhance accreditation services that encompass the

assessment of laboratories which conduct various tests on products. In this respect, STANDARDS MALAYSIA continued in 2008 to ensure existing accreditations comply with relevant requirements under the following schemes:

- **SAMM Scheme:** Under this scheme, 29 new laboratories were accredited in 2008, of which 24 were testing laboratories and 5 were calibration laboratories. A total of 281 surveillance assessments and re-assessments were also conducted.

Other progress made under SAMM in 2008:

- Implementation of accreditation of forensic science testing for document examination and controlled substances: Under Document Examination, a supplementary document STR 1.9 Specific Technical Requirements for Accreditation of Document Examination for Forensic Science Testing Laboratories have been developed and implemented since October 2008. As for Controlled Substances, a supplementary document was in the final stages of preparation with development work expected to start in June 2009.
- Implementation of accreditation of medical testing for Assisted Reproductive Technology (ART) and Cytogenetics: A supplementary document STR 2.7 Specific Technical Requirements for Accreditation of ART Laboratory has been developed. However, this sub-field was not implemented yet as technical assessors were not available. For cytogenetics, a supplementary document STR 2.8 Specific Technical Requirements for Accreditation of Cytogenetics Testing has been developed and implemented since August 2008.

- Implementation of accreditation of IT security evaluation: A supplementary document STR 1.10 (Accreditation of Information Technology Security Evaluation and Testing: Common Criteria) has been developed and would be implemented by March 2009.
- Accreditation of Certification Bodies (ACB) Scheme:** A total of 5 CBs were accredited for 4 accreditation programmes under this scheme. The CBs comprised of 1 for Environmental Management System (EMS), 1 for Occupational Safety and Health (OSH), 2 for HACCP and 1 for FSMS. A total of 35 surveillance assessments, re-assessments and extension of scope assessment were conducted. STANDARDS MALAYSIA also made progress in the implementation of accreditation programmes for the following:
- Certification of FSMS based on ISO/TS 22003. This accreditation programme was launched on September 15, 2008 with 1 CB receiving accreditation. Certification of FSMS, which suits all organisations in the food chain in ensuring the production of safe food, requires an organisation to meet all applicable food safety-related statutory and regulatory requirements throughout its management system.
  - Certification of Persons based on MS ISO/IEC 17024. This accreditation programme was launched on November 3, 2008 and is a means of providing assurance that the certified person meets the requirements of the certification scheme. Confidence in the respective certification schemes is achieved by means of a globally accepted process of assessment, subsequent surveillance and periodic re-assessments of the competence of certified persons. Two sectors have been identified as area of interest under this programme, i.e. radiation safety auditor and beauty science.
  - Initiative to develop 2 new accreditation programmes, i.e. Chain-of-Custody (CoC) certification for forestry products and palm oil production management certification to Roundtable on Sustainable Palm Oil (RSPO) requirements. STANDARDS MALAYSIA convened technical working groups to look into the documentation and related accreditation requirements for these programmes.
- Malaysia Inspection Bodies Accreditation Scheme (MIBAS):** A supplementary document MIBAS Technical Requirement 1 (MTR 1) has been developed for the implementation of accreditation scheme for ship inspection. Technical assessors from the Marine Department have also been identified however the department would audit ship inspection bodies on its own.
- STANDARDS MALAYSIA's Good Laboratory Practices Compliance Programme (GLP CP):** STANDARDS MALAYSIA and the National Pharmaceutical Control Bureau, Ministry of Health have been appointed by the Government on February 13, 2008 as the Compliance Monitoring Authority (CMA) for Malaysia. The role of CMA is to verify that test facilities used to conduct non-clinical health and environment safety studies comply with the OECD GLP Principles.
- On October 2, 2008, Malaysia was given the Provisional Adherent status under the OECD Mutual Acceptance of Data (MAD) mechanism. In the next two to three years, Malaysia will be evaluated by the OECD Inspectors in order to achieve the full adherent status. With this achievement, the non-clinical health and environment safety studies from Malaysia will be accepted by the 30 members and four non-member countries of OECD.
- National Proficiency Testing (PT) Programme for Calibration Laboratories:** STANDARDS MALAYSIA has completed and carried out 10 PT programmes with participation by 33 laboratories, in accordance to the requirements of the Asia Pacific Laboratory Accreditation Cooperation (APLAC) and International Laboratory Accreditation Cooperation (ILAC).
- In order to enhance better recognition of the national accreditation schemes, STANDARDS MALAYSIA continued in 2008 to forge and maintain closer co-operation with regulatory bodies and implementation agencies. Discussions were held with the regulators of SAMM, MIBAS, OECD GLP and ACB schemes with the aim of providing explanatory briefings through relevant meetings held during the year.



## Positioning STANDARDS MALAYSIA and Malaysia as a leader and international contributor

STANDARDS MALAYSIA helps position Malaysia in the international arena, and also ensures the relevance of MS and enhances competency and capabilities, through collaboration with foreign bodies.

STANDARDS MALAYSIA through its Director of Accreditation, Mr. Ridzwan Kasim was an Executive Committee member of the Pacific Accreditation Cooperation (PAC) since 2006. Apart from that, STANDARDS MALAYSIA also continued its participation in various regional and international co-operation i.e. Chairman of the ASEAN Consultative Committee for Standards and Quality (ACCSQ) Working Group 2 (WG2), maintained the position as the Secretary of APLAC PT Committee and remained actively involved in various assessments of other accreditation bodies peer evaluation for APLAC and PAC.

STANDARDS MALAYSIA's other involvement were in PAC re-evaluation of Bureau of Accreditation (BoA), Vietnam from March 23-28, 2008 by Ir. Boey Hor Meng, and re-evaluation of Korea Accreditation Board (KAB) from May 26-30, 2008 by Mr. Lai Seng Chiang. For APLAC, STANDARDS MALAYSIA was represented by Mr. Shaharul Sadrul Alwi, SAMM Scheme Manager in the re-evaluation of National Accreditation Body for Laboratory (NABL) of India from July 14-18, 2008 and pre-evaluation of Papua New Guinea Laboratory Accreditation Scheme (PNGLAS), Papua New Guinea from August 4-7, 2008.

Participation in international-level meetings helped ensure stronger stakeholders support, especially for employers and organisations to release experts whose participation in international standardisation activities was crucial.

In making further contribution to the international arena, STANDARDS MALAYSIA successfully organised three proficiency testing programmes for APLAC: APLAC M020 on DC Current Measurement, APLAC T064 on Trace Metals in Water and APLAC M023 on Relative Humidity. APLAC M020 and APLAC M023 were done in collaboration with the National Metrology Laboratory-SIRIM Berhad (NML-SIRIM) while APLAC T064 with the Department of Chemistry Malaysia.

Another key achievement was the appointment of STANDARDS MALAYSIA by the Malaysian Cabinet on February 13, 2008 as CMA for pesticides, industrial chemicals, feed additives and biotechnology (non-pharmaceutical) products under the OECD GLP. On October 2, 2008, Malaysia was accepted by the OECD Council as a Provisional Adherent, making the country as the 8th non-member economy to join the Council Decisions on Mutual Acceptance of Data in the Assessment of Chemicals. As a provisional adherence non-member, Malaysia will accept data from other OECD member countries and other adhering economies while it establishes its GLP compliance monitoring programme which started in 2008.

STANDARDS MALAYSIA also successfully maintained our signatory status for APLAC and ILAC MRA for testing (including medical) and calibration and retained compliance to ISO/IEC 17011 and other relevant requirements.

Concurrently, the ACB Scheme underwent a peer re-evaluation to maintain its signatory status for the accreditation programme for Quality Management Systems (QMS) and EMS. An initial evaluation of STANDARDS MALAYSIA's accreditation programme was also conducted by the PAC team to ascertain our competency for entry into the PAC MLA for product certification.



## Building Capacity and Capability of STANDARDS MALAYSIA

In 2008, STANDARDS MALAYSIA continued to focus on consolidating and strengthening its human capital particularly in enhancing capability and capacity in order to reach targets set in both standards and accreditation activities. Among the measures taken to enhance staff competency were sending staff members to attend relevant training both locally and overseas and giving them the necessary exposure to excel in their fields by participating in international seminars, forum, meetings and discussions on technical and other relevant issues. Some key personnel of STANDARDS MALAYSIA continued to hold positions in international-level committees, such as PAC and ACCSQ WG2 which not only helped ensure Malaysia's active participation but also kept the officers updated with current issues, skills and knowledge which were important in continuous building of capability. Several other key strategies were also undertaken during the year. These include a continuous review of accreditation policies and operational procedures to ensure strict compliance to international requirements, as well as to reduce turn-around-time for STANDARD MALAYSIA's to deliver its services.

**In 2008, STANDARDS MALAYSIA continued to focus on consolidating and strengthening its human capital particularly in enhancing capability and capacity in order to reach targets set in both standards and accreditation activities.**

Training programmes as part of capacity building were carried out for both standards and accreditation personnel in 2008. There were programmes for standards officers and assessors as well as for stakeholders and potential accredited laboratories. One training programme for standards officers was conducted from November 25-28, 2008 while a gap analysis was conducted from December 1-2, 2008 at SIRIM Berhad. As for accreditation, various training programmes were organised under SAMM, MIBAS and ACB schemes. These included training on document examination under SAMM, training workshop on inspection body accreditation under MIBAS and the following programmes under ACB: Training on Non-destructive Testing (NDT) Personnel Certification; OHSAS 18001:2007; MS 1480:2007; ISO/IEC 17024; and Radiation Safety Auditor Personnel Certification.

Plans to enhance capacity and capability also included increasing the intake of technical officers to cope with increasing workloads and to promote them as soon as possible. Five officers were targeted to be qualified assessors and lead assessors in order to reduce dependency on contract assessors. STANDARDS MALAYSIA also aimed to expand the accreditation fields and programmes to meet the industry's needs as well as expand the signatory status for MRAs and MLAs.

# OTHER MAJOR ACHIEVEMENTS AND ACTIVITIES

## PROMOTIONAL PROGRAMMES

Promotional activities are aimed at raising awareness of the public, industry, NGOs and other parties on the importance of standards and accreditation. STANDARDS MALAYSIA undertook the following promotional programmes in 2008:

### • Collaboration Programmes for Standards Promotion

STANDARDS MALAYSIA established smart partnerships and collaborated with various parties to carry out standards-related programmes as follows:



- Collaboration with Malaysian Islamic Chamber of Commerce
  - Road show seminars on Halal Food Standards Realisation in Sarawak, Johor, Perak, Pahang, Terengganu and the Federal Territory were held.



- Collaboration with Standards Users Association
  - Essay writing and photography competition on standards.
  - Awareness Training Programme for Educators.
  - Developing Train the Trainer Programme.
  - Advertorial on Standards in the print and electronic media.
  - Promotions on Social Responsibility (SR) through brochures, training, seminars and inter-university debates.
  - Promoting awareness on Standards for Public Toilets.



- Collaboration with Malaysian Islamic Consumer Association
  - Media campaign on Halal Standards through radio IKIIM. fm from April to September 2008.



- Collaboration with Malaysian Institute of Chemistry
  - Capacity building programme was carried out involving training of assessors, officers, stakeholders and potential accredited laboratories.
  - Publishing of promotional materials in the Malaysian Institute of Chemistry journals, publications and website.



• **Accreditation Promotion Programmes**

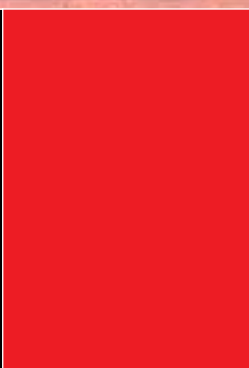
Several programmes to enhance awareness on the importance of accreditation were carried out in 2008. These included the following:

- Laboratory accreditation programme was implemented by disseminating relevant information and focusing on specific accreditation requirements. The programme aimed at encouraging more laboratories to seek accreditation was held in three zones:
  - Perak (North Region): March 24-25, 2008.
  - Klang Valley (Central Region): May 5-6, 2008.
  - Kelantan (East Region): May 26-27, 2008.



- Forum with STANDARDS MALAYSIA's assessors was held on October 24, 2008. The aim was to update assessors on the latest issues regarding accreditation of CBs, programmes, policies and documents. It also served as a platform to calibrate practices among assessors.

- Collaboration with SIRIM Berhad
  - Seminar on Handicraft Batik.
  - Seminar on Environmental Communications (ISO 14063).
  - Workshop on Road Vehicles.
  - Seminar on Cranes.
  - Seminar on Cranes - Updates and Safety and Regulatory Issues.
  - Seminar on Business Continuity Management.
  - Seminar on Malaysian Standards on Occupational Safety and Health Management Systems – Requirements and Guidelines.
  - Seminar on ISO 26000 on SR.
  - Seminar on Good Agricultural Practice (GAP).
  - Forum on Biometric.
  - Seminar on Nanotechnology.



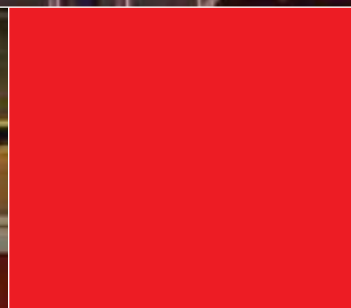
- Forum with CBs was held on November 4, 2008. The objectives were to exchange views amongst CBs and discuss the latest policies, documents and issues affecting accreditation of CBs. The Inland Revenue Board of Malaysia conducted a briefing to explain accreditation tax incentives.



## PARTICIPATION IN EXHIBITIONS

STANDARDS MALAYSIA continued to be active in organising and co-organising exhibitions as well as participating in exhibitions organised by external parties. STANDARDS MALAYSIA was involved in the following exhibitions in 2008:

- World Halal Forum/Expo 2008, organised by Halal Development Corporation (HDC) from May 12-13, 2008.
- Malaysia International Halal Showcase (MIHAS 2008), organised by the MATRADE from May 7-11, 2008.
- SMIDEX 2007 organised by SMIDEC from June 4-6, 2008.
- Malaysia International Food and Beverage, organised by Kumpulan UTUSAN and held from July 10-12, 2008.
- The 9th International Exhibition & Conference on Laboratory Instrumentation, Equipment, Automation and Services (LAB 2008) from June 10-13, 2008.



## REGIONAL AND INTERNATIONAL MEETINGS HOSTED

STANDARDS MALAYSIA hosted the following meetings and programmes in 2008:

- ACCSQ Automotive Product Working Group (APWG) Meeting from April 28-30, 2008.
- ACCSQ Traditional Medicine and Health Supplement (TMHS) Meeting from June 3-6, 2008.
- ISO/TC 96 on Cranes Meeting from June 8-15, 2008.
- 15th PAC Plenary Meeting from June 21-28, 2008.
- ISO/TC 218 on Timber Meeting from July 21-25, 2008.







**REGIONAL AND INTERNATIONAL MEETINGS ATTENDED**

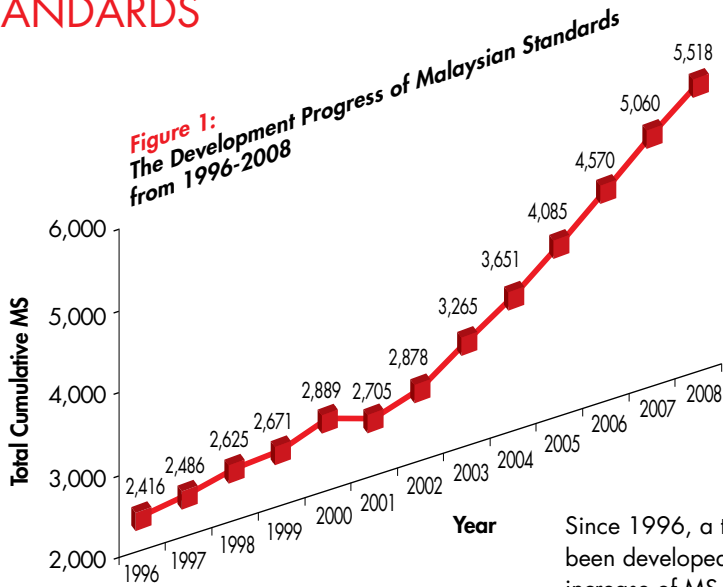
In order to ensure that the country's standards remain relevant, STANDARDS MALAYSIA continues its active participation in international meetings including those organised by ISO, IEC and regional meetings of ACCSQ, Asia-Pacific Economic Cooperation Sub-Committee on Standards and Conformance (APEC-SCSC) and Pacific Area Standards Congress (PASC). In the field of accreditation, STANDARDS MALAYSIA participated in many meetings involving ILAC, International Accreditation Forum (IAF), APLAC, PAC, ISO Conformity Assessment Committee (ISO/CASCO) and others so as to get continuous updates and pursue the interests of Malaysia.



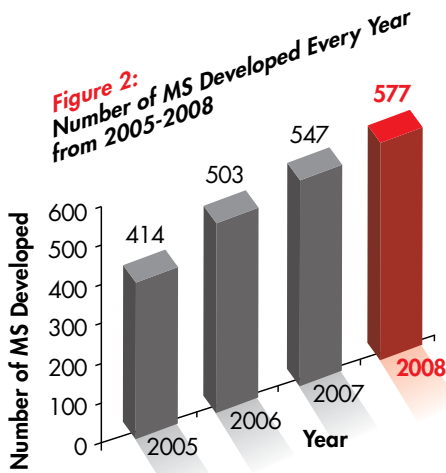
# KEY INDICATORS

## CUMULATIVE PERFORMANCE

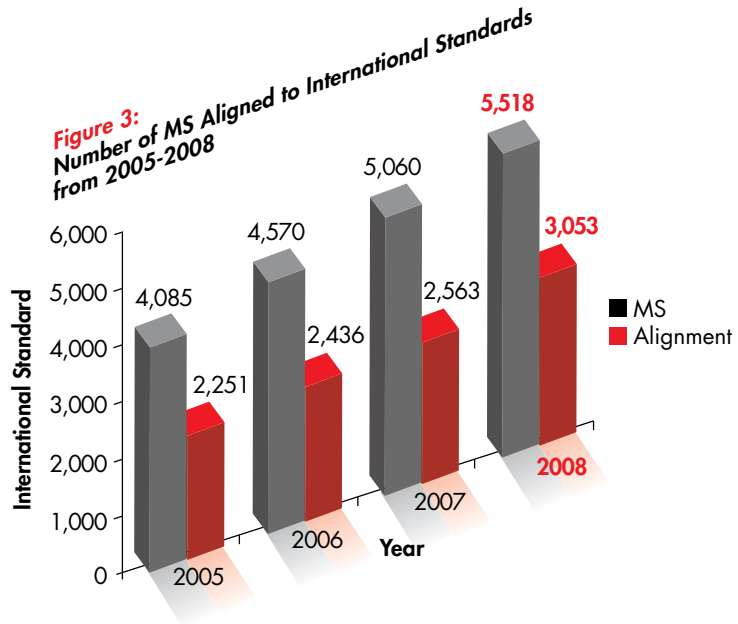
### STANDARDS



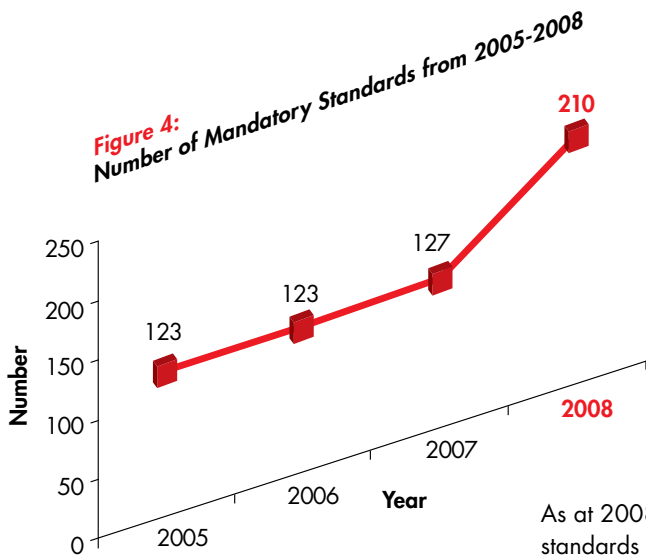
Since 1996, a total of 5,518 MS has been developed. There was cumulative increase of MS development from year to year except in year 2001.



The number of MS developed increased from 2005 to 2008. Year 2008 achieved the highest at 577 MS developed.



As at 2008, out of 5,518 MS developed, 3,053 or 55.13% were aligned to international standards.



As at 2008, the number of mandatory standards stands at 210, a marked increase from the previous years.



**Figure 5: Cumulative Number of MS Developed by Sectors as at December 31, 2008**

Agriculture	578
Chemicals	713
Consumer Product & Safety	71
Civil Engineering & Construction	262
Power Generation, Transmission and Distribution of Electrical Energy	776
Mechanical Engineering	304
Information Technology	653
Petroleum & Gas	205
Halal	4
Plastics	365
Packaging	99
Road Vehicles	181
Fire Safety & Fire Protection	87
Rubber	189
Organisational Management	2
Iron & Steel	103
Textiles	258
Medical Devices	183
Electrical Equipment & Accessories	93
Food & Food Product	50
Tourism, Exhibition & Hospitality Services	6
Occupational Health & Safety	148
Quality Management & Quality Assurance	123
Environmental Management	65
<b>TOTAL</b>	<b>5,518</b>

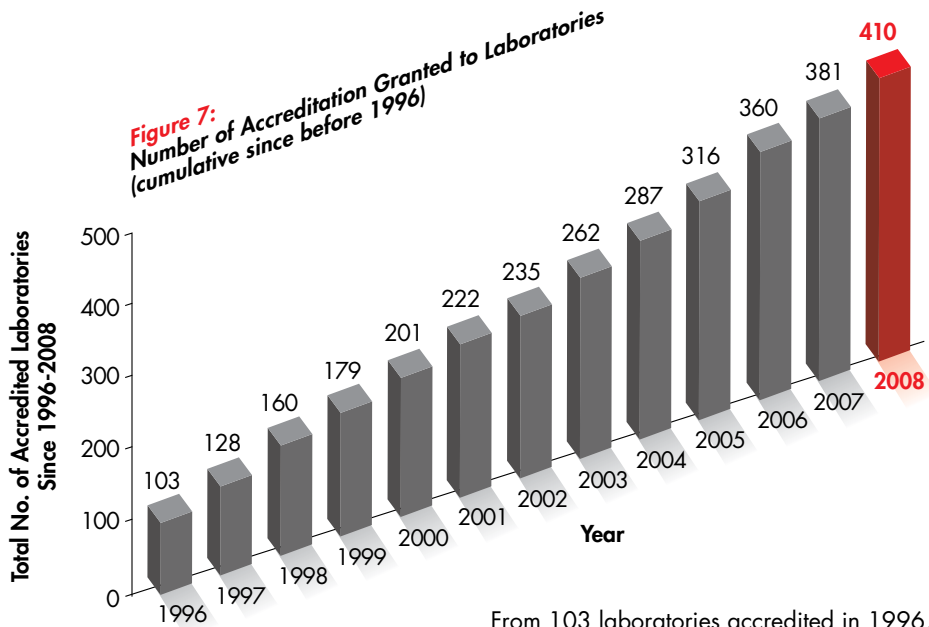
Cumulative number of MS developed up to December 31, 2008 was 5,518. The highest number of MS developed was in the Power Generation, Transmission and Distribution of Electrical Energy sector (776) followed by Chemicals (713) and Information Technology (653). The lowest number of MS developed was in the Organisational Management Sector (2).

**Figure 6: Alignment of Cumulative MS to International Standards as at December 31, 2008**

Sectors	2008 (31 December 2008)		
	Cumulative MS Developed	Aligned MS	
		Identical	Modified
Agriculture	578	123	6
Chemicals	713	337	51
Consumer Product & Safety	71	31	1
Civil Engineering & Construction	262	61	4
Power Generation, Transmission and Distribution of Electrical Energy	776	592	32
Mechanical Engineering	304	130	5
Information Technology	653	597	3
Petroleum & Gas	205	105	2
Halal	4	0	0
Plastics	365	180	13
Packaging	99	55	0
Road Vehicles	181	95	12
Fire Safety & Fire Protection	87	28	2
Rubber	189	106	19
Organisational Management	2	2	0
Iron & Steel	103	39	12
Textiles	258	58	0
Medical Devices	183	165	2
Electrical Equipment & Accessories	93	28	0
Food & Food Product	50	26	3
Tourism, Exhibition & Hospitality Services	6	6	0
Occupational Health & Safety	148	127	4
Quality Management & Quality Assurance	123	114	2
Environmental Management	65	48	0
<b>TOTAL</b>	<b>5,518</b>	<b>3,053</b>	<b>173</b>
<b>RATE OF ALIGNMENT</b>	<b>58.46%</b>		

The percentage of cumulative MS developed and aligned to international standards as at December 31, 2008 was 58.46%. The highest number of MS aligned to international standards was in the Power Generation, Transmission and Distribution of Electrical Energy sector (624) followed by Information Technology (600) and Chemicals (388).

## ACCREDITATION



From 103 laboratories accredited in 1996, the figure rose to 410 in 2008 signifying the increase in awareness among laboratories on the importance of seeking accreditation.

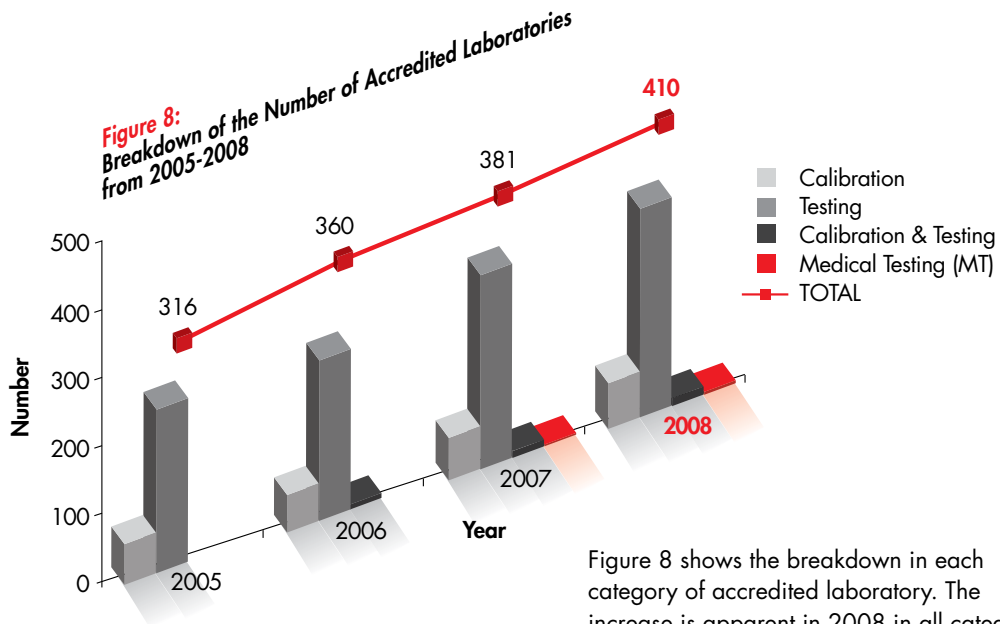


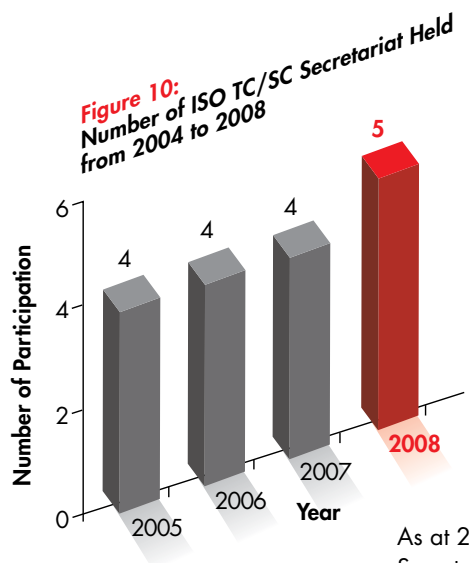
Figure 8 shows the breakdown in each category of accredited laboratory. The increase is apparent in 2008 in all categories. The total number of accredited laboratories as at December 31, 2008 was 410.

**Figure 9: Number of CBs Accredited from 2005-2008**

Accreditation Programme	CBs Accredited				Total Cumulative Number of Accredited CBs as at December 31, 2008
	2005	2006	2007	2008	
QMS	1	2	1	0	11
EMS	0	3	0	1	8
PCS	0	1	0	0	2
OSH	1	0	1	1	3
HACCP	0	0	1	2	3
ISMS	0	0	0	0	0
FMC	N/A	N/A	0	0	0
FSMS	N/A	N/A	N/A	1	1
Personnel	N/A	N/A	N/A	0	0

Figure 9 shows the number of CBs accredited by STANDARDS MALAYSIA from year 2005 to 2008 according to various programmes offered.

N/A: indicates that the programme was not yet offered during the year.



As at 2008, STANDARDS MALAYSIA holds 5 Secretariat positions in ISO TC/SC, namely:

- ISO TC 45 (Rubber and Rubber Products)
- ISO TC 45/SC 1 (Rubber and Plastic Hoses)
- ISO TC 45 (Rubber Products, other than hoses)
- ISO TC 157 (Mechanical Contraceptives)
- ISO PC 240 (Product Recall)

# PERFORMANCE INDICATORS 2008

## STANDARDS

**Figure 1: Number of MS Developed by Sectors in 2008**

Agriculture	18
Chemicals	88
Consumer Product & Safety	0
Civil Engineering & Construction	4
Power Generation, Transmission and Distribution of Electrical Energy	16
Mechanical Engineering	47
Information Technology	50
Petroleum & Gas	17
Halal	1
Plastics	29
Packaging	10
Road Vehicles	31
Fire Safety & Fire Protection	10
Rubber	19
Organisational Management	2
Iron & Steel	7
Textiles	16
Medical Devices	66
Electrical Equipment & Accessories	44
Food & Food Product	34
Tourism, Exhibition & Hospitality Services	6
Occupational Health & Safety	24
Quality Management & Quality Assurance	6
Environmental Management	32
<b>TOTAL</b>	<b>577</b>

Total MS developed in 2008 was 577 with the chemicals sector recording the highest number at 88 MS, followed by the medical devices sector (66) and the information technology sector (50).

**Figure 2: Status of Development of MS in 2008**

MS Development	Target 2008	MS Developed in 2008	Difference	
			Number	%
Adopted	280	407	127	145.36
Indigenous / Adapted	70	50	20	71.43
Revision	100	120	20	120.00
<b>TOTAL</b>	<b>450</b>	<b>577</b>	<b>127</b>	<b>128.22</b>

Total MS developed in 2008 was 577, which exceeded the target of developing 450 MS for the year by 128.22%.

**Figure 3: Total Mandatory Standards by Sectors as at December 31, 2008**

Sectors	Mandatory Standards
Food & Agriculture	38
Chemicals & Materials	3
Building & Civil Engineering	37
Electro-technical Engineering	97
Mechanical Engineering	6
Information Technology	6
Petroleum & Gas	4
Plastics & Plastic Products	2
Road Vehicles	5
Fire Safety & Fire Protection	8
Rubber	1
Iron & Steel	3
<b>TOTAL</b>	<b>210</b>

Of the total of 5,518 MS developed, 210 standards have been made mandatory. Mandatory standards are highest in the Electro-technical Engineering sector (97) followed by Food and Agriculture (38) and Building and Civil Engineering (37).

## ACCREDITATION

**Figure 4: Number of Malaysian Laboratories Accredited by Standards Malaysia as at December 31, 2008**

Field	Total Number of Accredited Laboratories	
	Cumulative	Active
Testing	320	264
Calibration	71	49
Calibration and Testing	14	13
Medical Testing	5	5
<b>TOTAL</b>	<b>410</b>	<b>331</b>

The cumulative total number of accredited laboratories as at December 31, 2008 was 410, of which 331 remained active.

**Figure 5: Accredited Certifications by Sectors as at December 31, 2008**

NO.	SECTORS	QMS	EMS	OSH		PC	HACCP
		ISO 9001:2000	ISO 14001:2004	OHSAS 18001:1999 & OHSAS 18001:2007	MS 1722 Part 1:2005		MS 1480:1999/2007
1	Agriculture, Fishing	23	4	1	0	-	0
2	Mining and Quarrying	28	8	1	1	-	0
3	Food Products, Beverages and Tobacco	247	97	88	2	-	75
4	Textiles and Textile Products	57	5	1	0	-	0
5	Leather and Leather Products	10	-	0	0	-	0
6	Wood and Wood Products	45	6	0	0	-	0
7	Pulp, Paper and Paper Products	108	27	6	1	-	0
8	Publishing Companies	12	1	0	0	-	0
9	Printing Companies	36	13	1	0	-	0
10	Manufacture of Coke and Refined Petroleum Products	19	8	3	0	-	0
11	Nuclear Fuel	1	-	0	0	-	0
12	Chemicals, Chemical Products and Fibres	221	54	21	7	-	0
13	Pharmaceuticals	9	1	1	0	-	0
14	Rubber and Plastic Products	395	90	11	0	-	0
15	Non-metallic Mineral Products	54	11	0	0	142	0
16	Concrete, Cement, Lime, Plaster etc	128	12	11	2	11	0



**Figure 5 (continued) : Accredited Certifications by Sectors as at December 31, 2008**

NO.	SECTORS	QMS	EMS	OSH		PC	HACCP
		ISO 9001:2000	ISO 14001:2004	OHSAS 18001:1999 & OHSAS 18001:2007	MS 1722 Part 1:2005		MS 1480:1999/2007
17	Basic Metals and Fabricated Metal Products	492	80	18	1	17	0
18	Machinery and Equipment	128	13	6	1	77	0
19	Electrical and Optical Equipment	388	166	33	5	-	0
20	Shipbuilding	9	-	0	0	-	0
21	Aerospace	9	1	1	0	-	0
22	Other Transport Equipment	56	22	8	1	-	0
23	Manufacturing Not Elsewhere Classified	55	8	1	0	-	0
24	Recycling	13	24	1	0	-	0
25	Electricity Supply	39	17	7	1	-	0
26	Gas Supply	1	1	0	0	-	0
27	Water Supply	24	2	0	0	-	0
28	Construction	496	29	13	5	-	0
29	Wholesale and Retail Trade; Repair of Motor Vehicles, Motorcycles and Personal and Household Goods	170	23	3	1	-	3
30	Hotels and Restaurants	21	6	2	1	-	4
31	Transport, Storage and Communication	175	14	15	2	-	0
32	Financial Intermediation; Real Estate; Renting	139	4	0	0	-	0
33	Information Technology	62	2	0	0	-	0
34	Engineering Services	265	7	12	3	-	0
35	Other Services	156	12	3	0	-	0
36	Public Administration	244	7	1	1	-	0
37	Education	162	1	0	0	-	0
38	Health and Social Work	243	-	2	0	-	0
39	Other Social Services	84	4	0	0	-	0
	<b>TOTAL</b>	<b>4,824</b>	<b>780</b>	<b>271</b>	<b>35</b>	<b>247</b>	<b>82</b>

**Figure 6: Number of Accredited Conformity Assessment Bodies as at December 31, 2008**

Scheme	Cumulative up to 2007	2008	Cumulative up to 2008	Accreditation Symbols
ACB (QMS Programme)	11	0	11	 <p><b>MS ISO/IEC GUIDE 17021: 2006</b> Accreditation Symbol for Quality Management System (QMS)</p>
ACB (EMS Programme)	7	1	8	 <p><b>MS ISO/IEC GUIDE 17021: 2006</b> Accreditation Symbol for Environmental Management System (EMS)</p>
ACB (PC Programme)	2	0	2	 <p><b>MS ISO/IEC GUIDE 65: 2000</b> Accreditation Symbol for Product Certification Bodies (PCB)</p>
ACB (OSH Management System)	2	1	3	 <p><b>MS ISO/IEC GUIDE 17021: 2006</b> Accreditation Symbol for OSH Management System (OSH MS)</p>
ACB (HACCP Based Food Safety Systems)	1	2	3	 <p><b>MS ISO/IEC GUIDE 17021: 2006</b> Accreditation Symbol for HACCP Based Food Safety Systems</p>
ACB (ISMS)	0	0	0	 <p><b>MS ISO/IEC GUIDE 27006: 2007</b> Accreditation Symbol for Information Security Management Systems (ISMS)</p>

**Figure 6 (continued) : Number of Accredited Conformity Assessment Bodies as at December 31, 2008**

Scheme	Cumulative up to 2007	2008	Cumulative up to 2008	Accreditation Symbols
ACB (FMC)	0	0	0	 <b>MS ISO/IEC GUIDE 17021: 2006</b> Accreditation Symbol for Forest Management Certification (FMC)
ACB (FSMS)	–	1	1	 <b>ISO/TS 22003: 2007</b> Accreditation Symbol for Food Safety Management Systems (FSMS)
ACB (Certification of Persons)	–	0	0	 <b>MS ISO/IEC 17024:2003</b> Accreditation Symbol for Certification of Persons
SAMM	381	29	410	 <b>MS ISO/IEC 17025</b> Accreditation Symbol for Laboratories (Testing and Calibration)
				 <b>MS ISO 15189</b> Accreditation Symbol for Laboratories (Medical Testing)
MIBAS	0	0	0	 <b>MS ISO/IEC 17020</b> Accreditation Symbol for Inspection Bodies

Note: Accredited conformity assessment bodies are allowed to use STANDARDS MALAYSIA accreditation symbols as indicated in Figure 7 on pages 39 and 40.

## PARTICIPATION AT ISO/IEC LEVEL

**Figure 7: Summary of Malaysia's Participation in IEC TCs**

Type	TC		SC		Total	
	2007	2008	2007	2008	2007	2008
'P' Member	1	1	0	0	1	1
'O' Member	0	0	0	1	0	1

STANDARDS MALAYSIA has increased its 'P' membership in 1 new IEC TC : IEC/TC 115 on High Voltage Current (HVDC) Transmission for DC voltages above 100 kV (provisional).

**Figure 8: Total Number of Participating 'P' Membership of ISO and IEC in 2008**

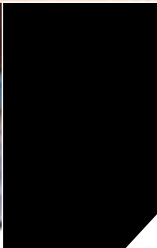
ISO	IEC
117	17

Malaysia's total 'P' memberships in both ISO and IEC in 2008 are 117 and 17 respectively.

## ABBREVIATIONS

ACB	Accreditation of Certification Bodies	MLA	Multilateral Recognition Arrangements
ACCSSQ	ASEAN Consultative Committee for Standards and Quality	MOSTI	Ministry of Science, Technology and Innovation
APEC-SCSC	Asia-Pacific Economic Co-operation Sub-committee on Standards and Conformance	MRA	Mutual Recognition Arrangements
APLAC	Asia Pacific Laboratory Accreditation Co-operation	MS	Malaysian Standards
APWG	Automotive Product Working Group	MSAC	Malaysian Standards and Accreditation Council
ART	Assisted Reproductive Technology	MT	Medical Testing
ASEAN	Association of South East Asian Nations	MyENC	Malaysian Electro-technical National Committee
BoA	Bureau of Accreditation	MyNAC	Malaysian National Accreditation Committee
CASCO	Conformity Assessment Committee	MyNMTAC	Malaysian National Medical Testing Accreditation Committee
CB	Certification Bodies	MyNSC	Malaysian National Standards Committee
CMA	Compliance Monitoring Authority	NABL	National Accreditation Body for Laboratory
CoC	Chain of Custody	NDT	Non-destructive Testing
DSM	Department of Standards Malaysia (STANDARDS MALAYSIA)	NGO	Non-governmental Organisations
EMS	Environmental Management System	NML	National Metrology Laboratory
EU	European Union	OECD	Organisation for Economic Co-operation and Development
FMC	Forest Management Certification Systems	OHSAS	Occupational Health & Safety Advisory Services
FSMS	Food Safety and Management Systems	OIC	Organisation of Islamic Conference
FTA	Free Trade Agreement	OSH	Occupational Safety and Health
GAP	Good Agricultural Practice	PAC	Pacific Accreditation Co-operation
GLP	Good Laboratory Practices	PASC	Pacific Area Standards Congress
GLP CP	Good Laboratory Practices Compliance Programme	PC	Product Certification
HACCP	Hazard Analysis and Critical Control Point	PCS	Product Certification System
HDC	Halal Development Corporation	PNGLAS	Papua New Guinea Laboratory Accreditation Scheme
HVDC	High Voltage Current	PT	Proficiency Testing
IAF	International Accreditation Forum	QMS	Quality Management System
IEC	International Electro-technical Commission	REACH	Registration, Evaluation and Authorisation of Chemicals
IECEX	IEC Scheme for Certification to Standards Relating to Equipment for use in Explosive Atmosphere	RSPO	Roundtable on Sustainable Palm Oil
ILAC	International Laboratory Accreditation Co-operation	SAMM	Laboratory Accreditation Scheme of Malaysia ( <i>Skim Akreditasi Makmal Malaysia</i> )
IRC	Information Resource Centre	SC	Sub-committee
ISMS	Information Security Management Systems	SEG	Standardisation Expert Group
ISO	International Organisation for Standardisation	SMIDEC	Small and Medium Industries Development Corporation
IT	Information Technology	SR	Social Responsibility
KAB	Korean Accreditation Board	ST&I	Science, Technology and Innovation
MAD	Mutual Acceptance of Data	TBT	Technical Barrier to Trade
MIBAS	Malaysia Inspection Bodies Accreditation Scheme	TC	Technical Committee
MIHAS	Malaysia International Halal Showcase	TMHS	Traditional medicine and health supplement
MITI	Ministry of International Trade and Industry	US	United States
		WG	Working Group

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