

## SAMM IN GENERAL

The *Skim Akreditasi Makmal Malaysia* (SAMM - Laboratory Accreditation Scheme of Malaysia) is one of the accreditation schemes provided by the Department of Standards Malaysia (STANDARDS MALAYSIA). It was first established by the Government on 15 August 1990.

SAMM is a unified national laboratory accreditation scheme and is multi-disciplinary in its scope of accreditation activities. It covers both calibration and testing.

## ACCREDITATION CRITERIA

General criteria, MS ISO/IEC 17025 or MS ISO 15189 (for medical laboratory) and SAMM policies are used in assessment and accreditation.

## ASSESSORS

Assessors are drawn from technical agencies, such as Department of Chemistry Malaysia, Malaysian Rubber Board, Malaysia Palm Oil Board, Ministry of Health, universities and government laboratories. Other competent individuals are also employed as SAMM assessors. Assessors are trained by STANDARDS MALAYSIA, accreditation bodies in the Asia Pacific region and other competent training organizations.

## REFERENCE TO SAMM ACCREDITATION

Accredited laboratories may use SAMM symbol and/or refer to SAMM accreditation by using the sentence "SAMM Accredited Laboratory for specific test(s)/calibration as per Certificate No. SAMM XXX".

## FIELDS OF TESTING

Current fields of testing offered for accreditation are:

- 1 CHEMICAL**  
Chemical tests and analysis on products and materials.
- 2 BIOLOGICAL**  
Biological, microbiological and biomedical, testing and measurement, including examinations of foods, drugs and pharmaceuticals.
- 3 ELECTRICAL**  
Testing of electrical and electronic components, instruments and equipment including commercial and industrial equipment and household appliances.
- 4 THERMAL**  
Including thermal characteristics of building materials, fire testing such as tests evaluating fire resistance, ignitability, flammability, etc., of products and materials.
- 5 MECHANICAL**  
Mechanical/physical and metallurgical testing of material and products. Includes tests such as tensile, rupture, elongation, elasticity, hardness and fatigue on materials.
- 6 NON-DESTRUCTIVE TESTING (NDT)**  
Examination of materials, components, and assemblies to detect defects without damaging the material, component or assembly. Tests include radiography, ultrasonics, penetrants, magnetic particle and eddy currents.
- 7 RADIOACTIVITY TESTING**  
Radioactivity test and analysis on materials and sample.
- 8 HOUSEHOLD PESTICIDE**  
Includes testing on the following scopes; mosquito mats and electric liquid vaporizer, space spray aerosol, residual spray aerosol, direct spray aerosol, mosquito coils, cockroach baits, mosquito skin repellent, household rat baits, smokeless paper mosquito coils, mosquito gels and other similar products.

- 9 TOXICITY**  
Testing for chemical products, manufactured products, cosmetic and skin care products, medical devices and also wastes and environmental samples.
- 10 ELECTROMAGNETIC COMPATIBILITY (EMC)**  
Testing for electromagnetic compatibility (EMC) including electromagnetic disturbance test and immunity test.
- 11 VETERINARY**  
Includes testing on the following scopes; bacteriology, mycology, serology, virology, parasitology, pathology, molecular biology, clinical pathology, immunology, prions, chemistry, feed analysis and animal nutrition.
- 12 GENETICALLY MODIFIED ORGANISM (GMO)**  
Analysis for detection and quantification of GMO covers both DNA and protein based methods.
- 13 NUCLEIC ACID**  
Requirements for accreditation of laboratories involved in nucleic acid testing in a broad variety of sample that provide services in particular fields related to molecular biology and/or genetic analysis.
- 14 DNA PROFILING**  
Comprises of DNA Profiling for forensic DNA profiling and paternity testing using DNA method.
- 15 FIRE ACCELERANTS**  
Includes testing for fire accelerants in fire debris for forensic science testing laboratories.



## FIELDS OF CALIBRATION

Current fields of calibration offered for accreditation are:

- 1 HEAT AND TEMPERATURE MEASUREMENT**  
Including heat, temperature and humidity measuring equipment.
- 2 ELECTRICAL MEASUREMENT**  
Including the calibration of electrical and electronic instruments and equipment.
- 3 MASS AND MASS-RELATED QUANTITIES MEASUREMENT**  
Including measurement of mass, density, pressure, force, hardness, viscosity, flow, and volume and the examination of machines and instruments used in these measurements.
- 4 OPTICAL AND PHOTOMETRIC MEASUREMENT**  
Including measurement made with and on optical and photometric equipment and instruments: measurement of colour and surface smoothness (reflectance, gloss); measurements involving visible (light) and near-visible (infrared, ultra violet) wavelength of radiation.
- 5 DIMENSIONAL MEASUREMENT**  
Including various length and dimensional calibrations work.
- 6 ACOUSTIC & VIBRATION MEASUREMENT**  
Including measurement of environmental noise and mechanical vibration, calibration of acoustic and vibration measuring equipment, acoustic and vibration characteristics of materials and structures, audiometry, measurement of sound power, acoustic and vibration performance tests and dynamic balancing.
- 7 RADIOACTIVITY MEASUREMENT**  
Including the calibration of radiation measuring equipment.

### Test methods

All existing national and international standard methods from national standards bodies and reputable technical organisations. Other testing methods and procedures are acceptable for accreditation purposes provided they are validated and documented.



# SKIM AKREDITASI MAKMAL MALAYSIA (SAMM)

Field Offered

*For further information, kindly contact:*

**DEPARTMENT OF STANDARDS MALAYSIA**  
Level 1 & 2, Block C4, Complex C  
Federal Government Administrative Centre  
62502 Putrajaya, Malaysia

Tel: 603-8885 8824 / 8172 / 8827

Fax: 603-8889 4100

E-mail: [info@standardsmalaysia.gov.my](mailto:info@standardsmalaysia.gov.my)

Website: [www.standardsmalaysia.gov.my](http://www.standardsmalaysia.gov.my)



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## ACCREDITATION PROCESS

1. Application
2. Adequacy audit
3. Pre-assessment
4. Compliance assessment
5. Discharge of non-conformities
6. Evaluation of assessment report
7. Recommendation for accreditation
8. Granting of accreditation
9. Periodic Surveillance and Re-assessment

## ACCREDITATION CERTIFICATE

Valid for three years and renewable, subject to terms and conditions of the SAMM scheme.

## SURVEILLANCE AND RE-ASSESSMENT

Surveillance 1 is scheduled nine (9) months from the date of award/renewal of accreditation, and followed by Surveillance 2, twelve (12) months after Surveillance 1.

Re-assessment is scheduled three (3) months before the expiry date of accreditation.

## PROFICIENCY TESTING

Accredited laboratories are required to participate in available interlaboratory cross-check programmes or other forms of comparison testing such as the proficiency testing programmes by APLAC (Asia Pacific Laboratory Accreditation Cooperation). Directory or Listing of Proficiency Testing is available from STANDARDS MALAYSIA's office and website.

## APPEALS PROCEDURE

Appeals procedure which maintained the independence, impartiality in the process of appeal, has been established for the handling and resolution of any appeal that may arise from the accreditation process.

## ACCREDITED LABORATORIES

STANDARDS MALAYSIA publishes list and details of accredited laboratories in STANDARDS MALAYSIA's website. The list is updated from time to time and contains the scopes accredited for each laboratory.

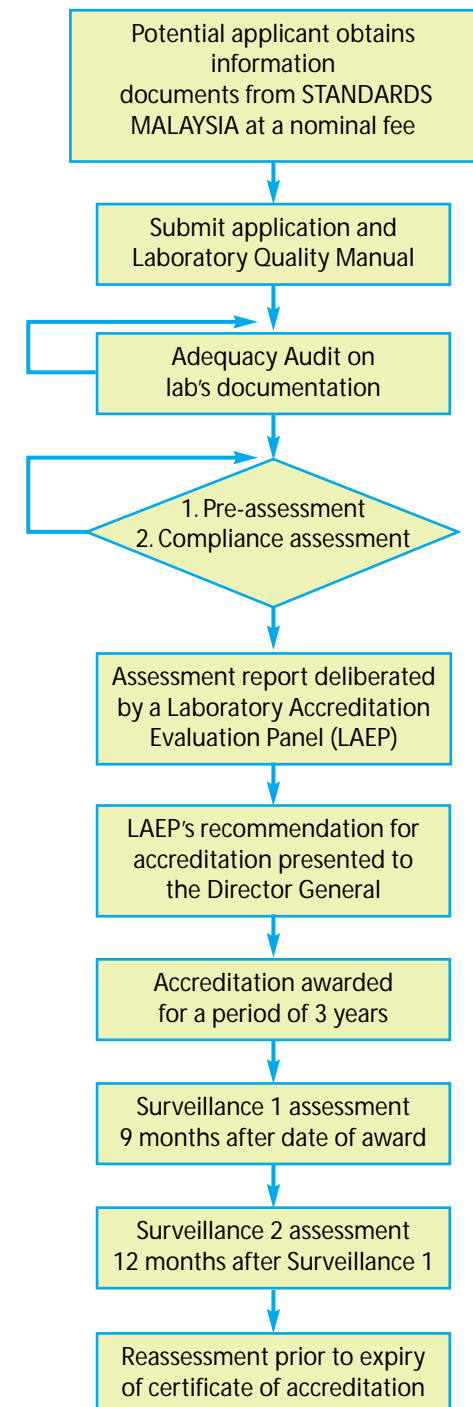
## PUBLICATIONS

Published documents are available at a nominal fee. A listing of the following is available from STANDARDS MALAYSIA:

- a) Accreditation criteria
- b) Terms and conditions
- c) SAMM guidance documents
- d) SAMM policy documents
- e) Directory of accredited laboratories
- f) SAMM information documents



## ACCREDITATION FLOW CHART



## SAMM FEE SCHEDULE

(Effective 1 January 1994)

1. Processing Fee	For One Field	For Each Additional Field
<b>a) New Application</b>	RM 3,500.00	RM 200.00
Calculation: Total fees to be paid	RM 3,500.00 + (n*-1) RM 200.00	
<b>b) Application for</b>	<b>Expansion of scope within the same field</b>	<b>Addition of new field</b>
	RM 200 for each field	RM 200.00 for each additional field
On getting accreditation, for first year and yearly renewal		
2. Annual Renewal Fee	For One Field	For Each Additional Field
	RM 3,000.00	RM 200.00
Calculation: Total fee to be paid	RM 3,000.00 + (n*-1) RM200.00	
3. Other fees		
<b>a) Assessment Fee for Assessor</b>	RM 600.00 per assessment visit / assessor	
<b>b) Additional Assessment Fee</b> (at request of the laboratory)	RM 600.00 per assessment visit / assessor	
<b>c) Payment for replacement of certificates</b>	RM 100.00 for each replaced certificate	
<b>4. Overseas assessors contracted by STANDARDS MALAYSIA</b> (decision of 10th. MAC meeting 11.1.96)	Actual professional charges, cost of return flights (business class) and accommodation arising from engaging overseas will be charged directly to the laboratory.	
<b>5. Assessors contracted by STANDARDS MALAYSIA to perform assessments overseas</b>	by quotation	

Note : n\* = No. of field applied for / no. of fields accredited

\*\* : Application fee is non-refundable. An application is considered lapsed if the applicant failed to obtain accreditation within two years from the date of acceptance of application.

Concept & Design by Masmode



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## Accreditation Process & Fee

For further information, kindly contact:

**DEPARTMENT OF STANDARDS MALAYSIA**  
Level 1 & 2, Block C4, Complex C  
Federal Government Administrative Centre  
62502 Putrajaya, Malaysia

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