Certification of

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Hasnol Zakaria

Product Certification And Inspection

Presentation Outline

- ❑ What is Personal Protective Equipment (PPE)?

- ❑ Seven (7) types of PPE which required approval

- ❑ Product Standards

- ❑ Product Certification – Definition

- ❑ Product Certification – Benefits

- ❑ Certification Process

- ❑ Product Certification Scheme – Type 5

- ❑ Batch Certification Scheme – Type 1b

- ❑ Procedure for Existing licensee

- ❑ SIRIM-DOSH label

What is Personal Protective Equipment?

➡️ commonly referred to as "PPE",

➡️ Equipment used to minimize exposure to hazards that cause serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards.

➡️ Personal protective equipment may include items such as gloves, safety glasses and shoes, earplugs or muffs, hard hats, respirators, or coveralls, vests and full body suits.

Requirements under **Factories and Machinery Act 1967, Occupational Health and Safety Act 1994 and Regulations.**

7 types of PPE which required approval are:

(i) Respiratory protection

(ii) Hearing Protection

(iii) Eye Protection

(iv) Hand Protection

Requirements under **Factories and Machinery Act 1967, Occupational Health and Safety Act 1994 and Regulations.**

(v) Foot Protection

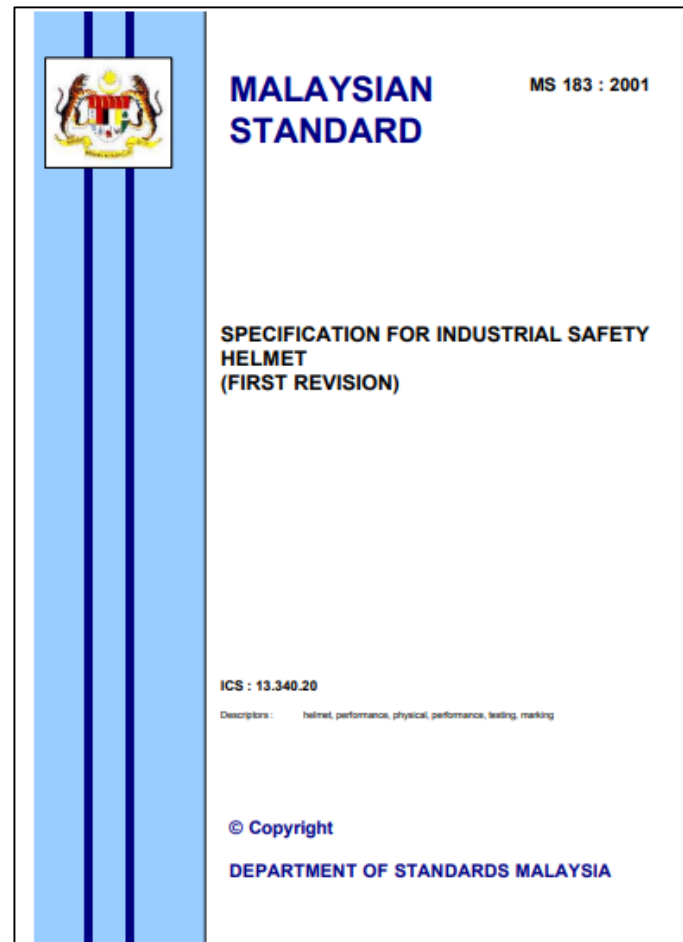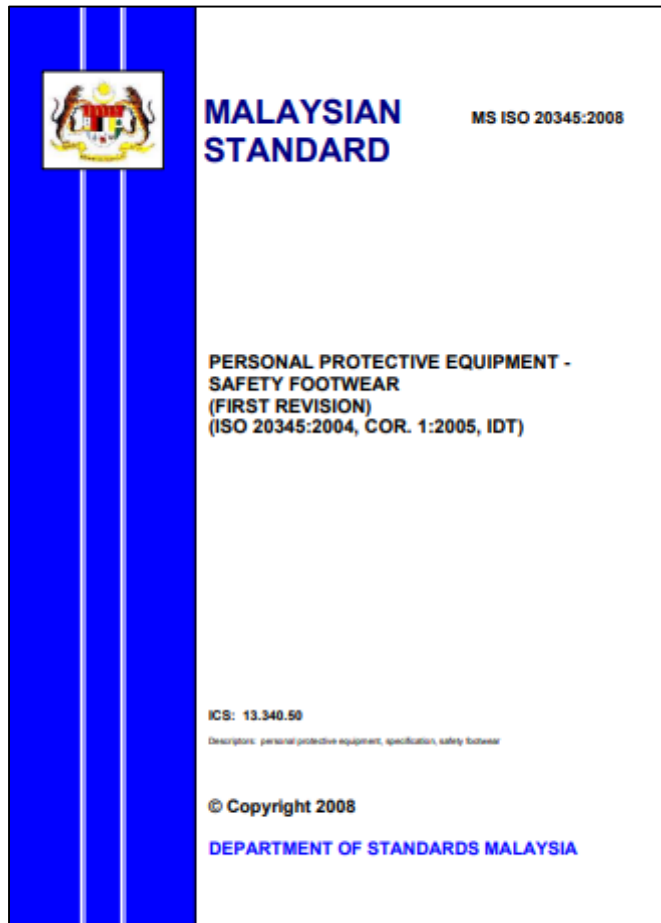(vi) Body Protection

(vii) Head Protection

Product Standards

➤ **Standards** (Specified requirements)
A publicly available document **established by consensus** and approved by a recognized body.

➤ Standards can be purchased from Jabatan Standard Malaysia or any National Standard organization.

Product Standards

Example MS:

MALAYSIAN STANDARD — MS ISO 20345:2008

PERSONAL PROTECTIVE EQUIPMENT -
SAFETY FOOTWEAR
(FIRST REVISION)
(ISO 20345:2004, COR. 1:2005, IDT)

ICS: 13.340.50

Descriptors: personal protective equipment, specification, safety footwear

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MALAYSIAN STANDARD — MS 183 : 2001

SPECIFICATION FOR INDUSTRIAL SAFETY
HELMET
(FIRST REVISION)

ICS : 13.340.20

Descriptors: helmet, performance, physical, performance, testing, marking

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Product Standards

Example (BS EN):

BRITISH STANDARD

BS EN 14387:2004 +A1:2008
Incorporating corrigendum December 2004

Respiratory protective devices — Gas filter(s) and combined filter(s) — Requirements, testing, marking

ICS 13.340.30

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BSi British Standards

BRITISH STANDARD

BS EN 361:2002

Personal protective equipment against falls from a height — Full body harnesses

The European Standard EN 361:2002 has the status of a British Standard

ICS 13.340.99

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BSi

Product Certification

Definition – as according to ISO/IEC 170067

A procedure by which a third party gives written assurance that a product conforms to specified requirements

(with factory assessment & surveillance,

OR specific on particular batch)

Product Certification

Why do we need it..?

➡ Provide *independent assurance* for products manufactured *to conform consistently with standards or specifications.*

➡ Give manufacturers right to affix the *SIRIM's "Top Mark"* on their products.

➡ Provide *basis and means* for the regulatory agencies in *making decision* on approval and surveillance of products under its purview, e.g. SIRIM-DOSH certification for PPE

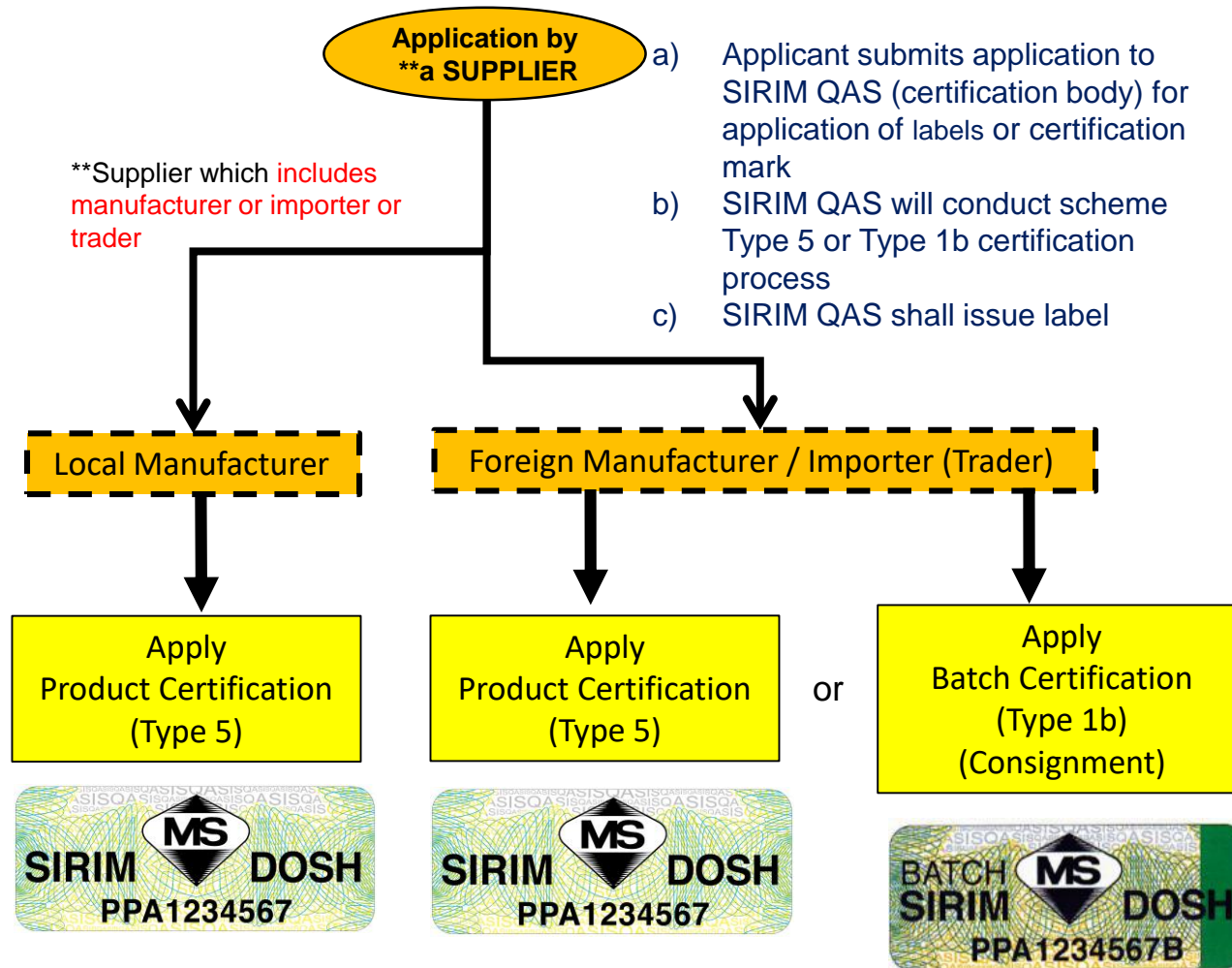➡ Assure customers of *products' quality, safety & reliability.*

Certification Process

TYPE 5

- PRODUCT CERTIFICATION SCHEME
- Long term certification scheme
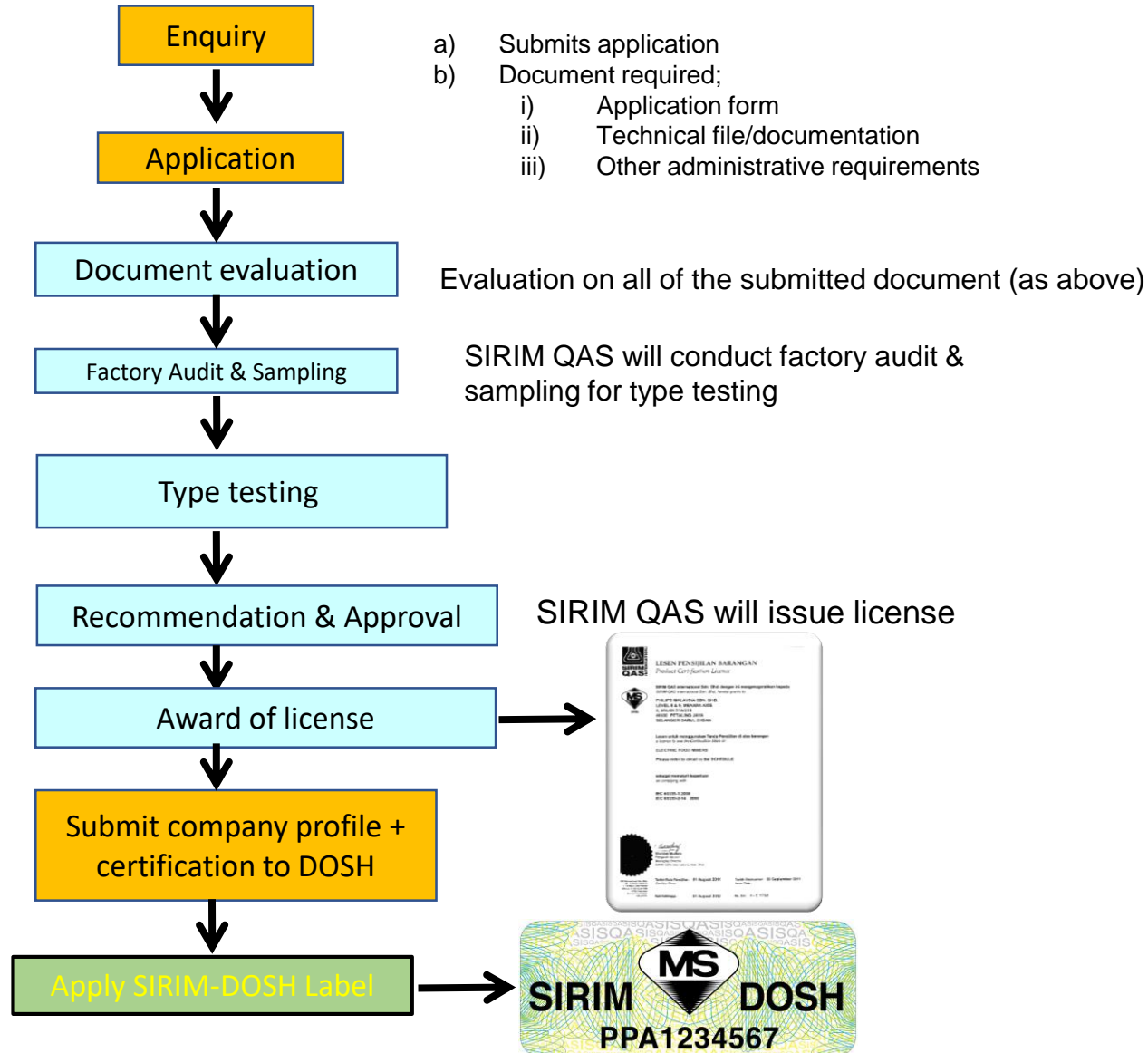- Yearly license renewal
- Factory audit will be conducted at factory

TYPE 1B

- BATCH CERTIFICATION SCHEME
- Short term certification scheme, based on batch consignment
- Batch certificate is issued on a specific batch which has been tested
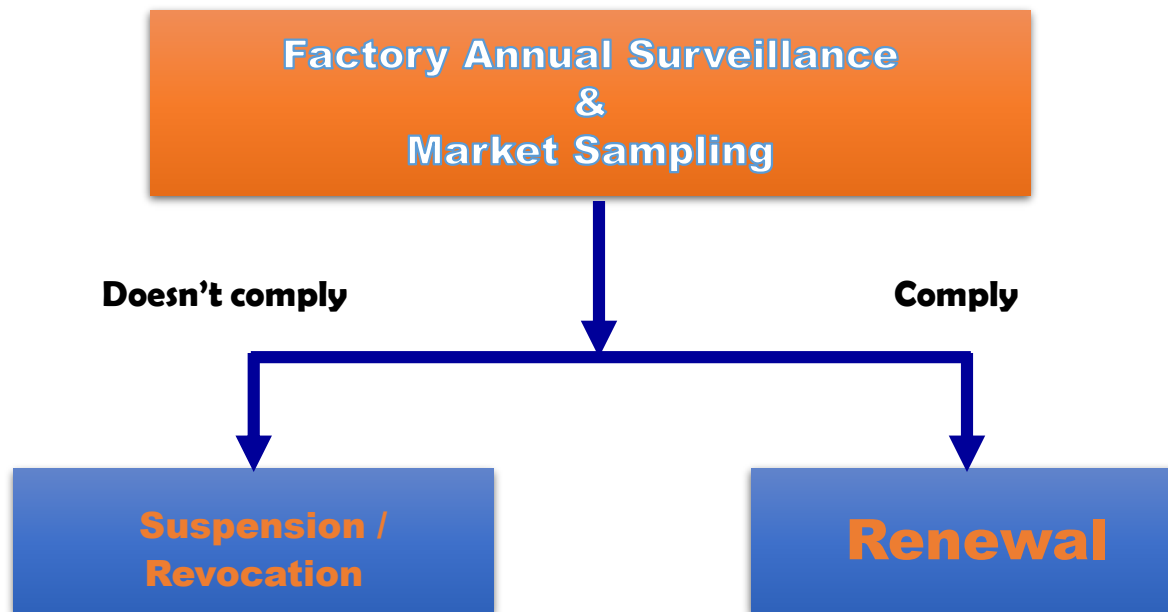- Factory audit is not conducted

APPLICATION FOR CERTIFICATION

Application by **a SUPPLIER

a) Applicant submits application to SIRIM QAS (certification body) for application of labels or certification mark

b) SIRIM QAS will conduct scheme Type 5 or Type 1b certification process

c) SIRIM QAS shall issue label

**Supplier which includes manufacturer or importer or trader

Local Manufacturer

Foreign Manufacturer / Importer (Trader)

Apply Product Certification (Type 5)

Apply Product Certification (Type 5)

or

Apply Batch Certification (Type 1b) (Consignment)

SIRIM MS DOSH PPA1234567

SIRIM MS DOSH PPA1234567

BATCH SIRIM MS DOSH PPA1234567B

PROCESS FLOW : PRODUCT CERTIFICATION SCHEME (TYPE 5)

Enquiry

Application

Document evaluation

Factory Audit & Sampling

Type testing

Recommendation & Approval

Award of license

Submit company profile + certification to DOSH

Apply SIRIM-DOSH Label

a) Submits application
b) Document required;
    i) Application form
    ii) Technical file/documentation
    iii) Other administrative requirements

Evaluation on all of the submitted document (as above)

SIRIM QAS will conduct factory audit & sampling for type testing

SIRIM QAS will issue license

SIRIM MS **DOSH**
PPA1234567

PROCESS FLOW : PRODUCT CERTIFICATION SCHEME (TYPE 5)
- Surveillance and Renewal process

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┌─────────────────────────────────┐
│  Factory Annual Surveillance    │
│              &                  │
│       Market Sampling           │
└─────────────────────────────────┘
```

Doesn't comply   **Comply**

```
┌──────────────────┐          ┌──────────────────┐
│   Suspension /   │          │     Renewal      │
│   Revocation     │          │                  │
└──────────────────┘          └──────────────────┘
```

'TYPE TEST' APPLICATION

Application by **a SUPPLIER

1
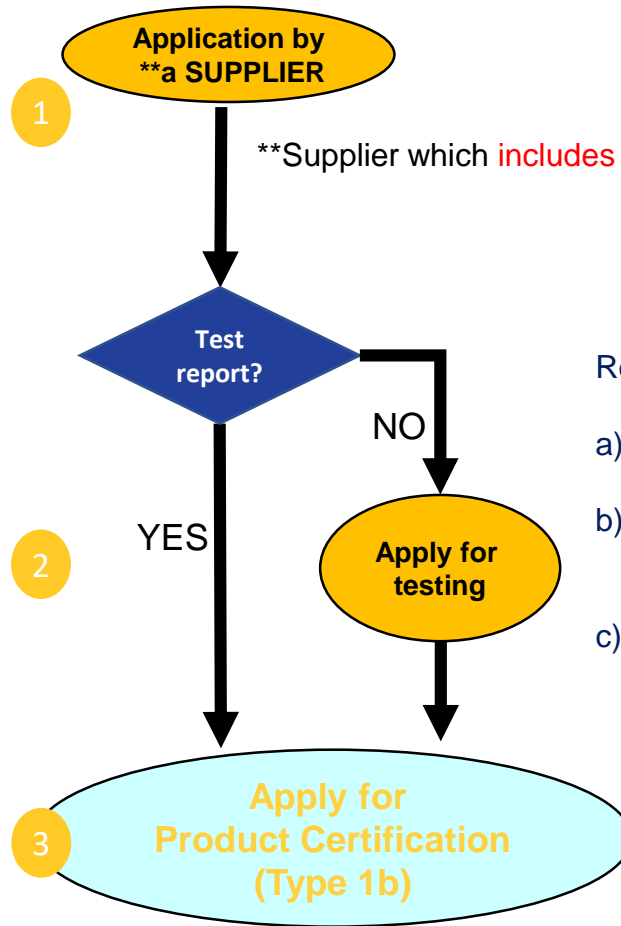
**Supplier which includes importer, manufacturer and trader

Test report?

NO

YES

2

Apply for testing

3

Apply for Product Certification (Type 1b)

Requirement of a **FULL TYPE TEST** report;

a) Test at SIRIM QAS International, maybe witness by DOSH
b) Test at factory lab or 3rd party lab supervised by SIRIM QAS International, maybe witness by DOSH
c) Test at an accredited lab to ISO/IEC 17025 maybe supervise by SIRIM and witness by DOSH

Applicant submits application for Batch Consignment together with Type Test Report

SIRIM QAS INTERNATIONAL

PROCESS FLOW : BATCH CERTIFICATION SCHEME (TYPE 1b)

Application by **a SUPPLIER (importer)

a) Submits application
b) Document required;
    i)   A Full type test report
    ii)   Bill of lading
    iii) Invoice / Packing list

Document evaluation

Evaluation on a full type test report + all of the submitted document (as above)

Batch arrival

Sampling at warehouse

Sampling & Inspection

SIRIM QAS will conduct consignment sampling & inspection

Critical -Test* & Evaluation

Failed → No label

Passed →

* Not a full type test
It's **a critical test / partial test** to ensure that imported products are the same products as per declared in the full type test report

Recommendation & Approval

SIRIM QAS will issue batch certificate

Apply for DOSH approval

Apply SIRIM-DOSH Label

SIRIM QAS will issue label based on no. of imported quantity

BATCH SIRIM MS DOSH
PPA1234567B

Current Licensee for Type 5
Condition = Full type test validity within 5 years

LICENSEE

↓

Yearly surveillance audit

↓

Surveillance test

↓

Issuance of renewal License

↓

Apply for DOSH Approval

↓

Apply SIRIM-DOSH Label
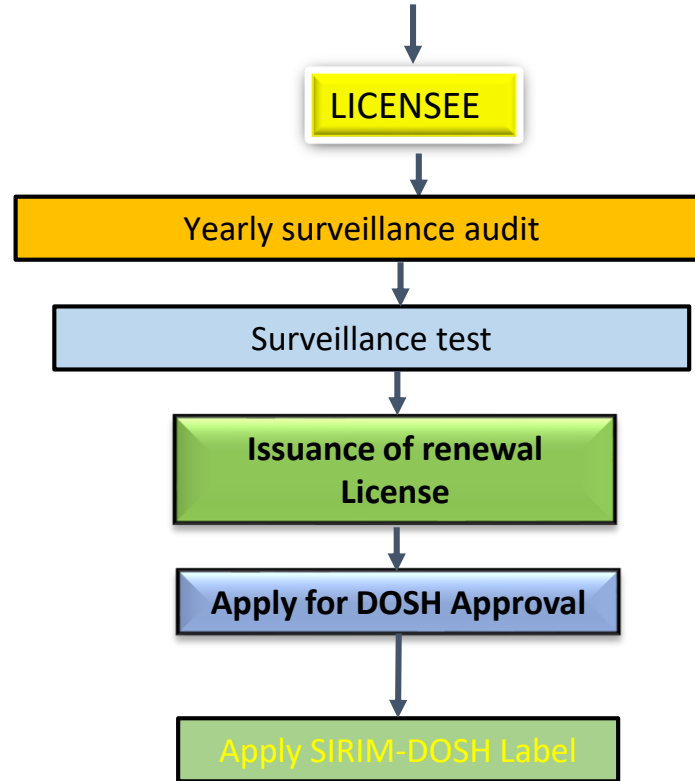
a) SIRIM testing laboratory. The testing maybe witnessed by DOSH officer.

b) Factory laboratory or any 3rd party testing laboratory or Laboratory accredited to ISO/IEC 17025 and a signatory of ILAC/APLAC MRA. However, the type testing maybe supervised by SIRIM Tester and maybe witnessed by DOSH officer.
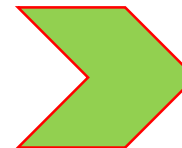
SIRIM-DOSH Label

Where should it be placed?

TYPES OF PPE	SIRIM-DOSH label location	
	On the product	On the packaging
	MS SIRIM DOSH PPA1234567	
		MS SIRIM DOSH PPA1234567
		MS SIRIM DOSH PPA1234567
	MS SIRIM DOSH PPA1234567	**MS** SIRIM DOSH PPA1234567
	MS SIRIM DOSH PPA1234567	**MS** SIRIM DOSH PPA1234567
		MS SIRIM DOSH PPA1234567
		MS SIRIM DOSH PPA1234567

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THANK YOU