

PERSONAL PROTECTIVE EQUIPMENT (PPE)

PRODUCT TESTING SERVICES

MUHAMMAD TASHRIFF SHAH BIN HELMY SYAMZA
TESTING SERVICES DEPARTMENT

18 MAY 2022



Best Partner for Innovation

TESTING SERVICES DEPARTMENT

1. Civil & Construction

2. Mechanical & Automotive

3. Chemical, Polymer & Composite

4. Material Integrity

5. Electrical & Electronics

6. Radio Frequency & EMC

7. Fire Protection

Schedule

Issue date: 20 January 2021
Valid until: 7 December 2023



NO: SAMM 085

Page: 1 of 45

LABORATORY LOCATION:
(PERMANENT LABORATORY)



TESTING SERVICES DEPARTMENT
(CCST, **MAST**, FPST & MIST)
SIRIM QAS INTERNATIONAL SDN. BHD.
BUILDING 8, SIRIM COMPLEX
1, PERSIARAN DATO' MENTERI
SECTION 2, P.O. BOX 7035
40700 SHAH ALAM
SELANGOR, MALAYSIA

FIELDS OF TESTING:

MECHANICAL AND THERMAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

Schedule

Issue date: 29 March 2022
Valid until: 31 January 2024



NO: SAMM 087

Issue 3, 29 March 2022 replacement
of SAMM 087 dated 13 July 2021)

Page: 1 of 14

LABORATORY LOCATION:
(PERMANENT LABORATORY)



CHEMICAL, POLYMER & COMPOSITE SECTION (CPCT)
TESTING SERVICES DEPARTMENT
SIRIM QAS INTERNATIONAL SDN. BHD.
BUILDING 8, NO 1, PERSIARAN DATO' MENTERI
P.O.BOX 7035, SECTION 2
40700 SHAH ALAM, SELANGOR
MALAYSIA

FIELDS OF TESTING:

CHEMICAL AND MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

PPE HELMET & PERSONAL PROTECTIVE EQUIPMENT TESTING

PERSONAL PROTECTIVE EQUIPMENTS



PERSONAL PROTECTIVE EQUIPMENTS



Head Protection

- MS 183 & EN 397
- EN 812

Eye Protection

- MS 2050, EN 166
- ANSI Z87.1



Hearing Protection

- EN 352



Breathing Protection

- MS 2323, EN 140, EN 143, EN 149 & EN 14387



PERSONAL PROTECTIVE EQUIPMENTS

Hand Protection

- EN 388, EN ISO 21420



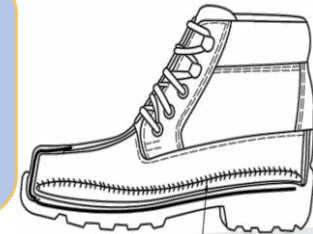
Body Protection

- MS 2308, MS 2309, MS 2310, MS 2311, MS 2312, MS 2313, MS 2314, MS, 2315
- EN 353-2, EN 354, EN 355, EN 358,
- EN 360, EN 361, EN 362, EN 795 & EN 813



Foot Protection

- MS ISO 20345 & EN ISO 20345



TEST LOCATION

**SIRIM
IN HOUSE
TEST**

TEST AT

- **FACTORY**
- **3rd PARTY
LAB**

SIRIM IN-HOUSE TEST

SAFETY FOOTWEAR

- MS ISO 20345 & EN ISO 20345

INDUSTRIAL SAFETY HELMET & BUMP CAP

- MS 183 & EN 397
- EN 812

PROTECTIVE GLOVE

- EN 388, EN 420 @ EN ISO 21420

TEST EQUIPMENTS



TEST EQUIPMENTS



TEST EQUIPMENTS

☐ **Universal Tensile Machine (UTM)**

- Compression Test
- Tensile Test
- Tear Strength Test
- Upper/outsole Bond Strength Test
- Interlayer Bond Strength
- Retention System Strength Test

☐ **Impact Test for Toe Cap of Safety Footwear**

☐ **Impact Test for Safety Helmet**

☐ **Penetration Test**

☐ **Stiffness Test**

☐ **Temperature & Humidity Chamber**

☐ **Abrasion Test**

☐ **Flexing Test**

☐ **Water Absorption & Desorption Test**

☐ **Flame Resistance Test**

☐ **Corrosion Test**

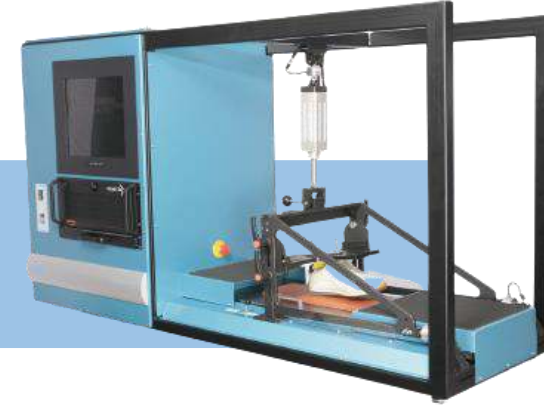
☐ **Artificial Ageing Test**

☐ **pH Test**

NEW TESTING EQUIPMENTS



SLIP RESISTANCE TESTER
EN ISO 20345



BLADE CUT RESISTANCE
EN 388



TDM CUT RESISTANCE
EN 388



TEST 3rd PART LAB

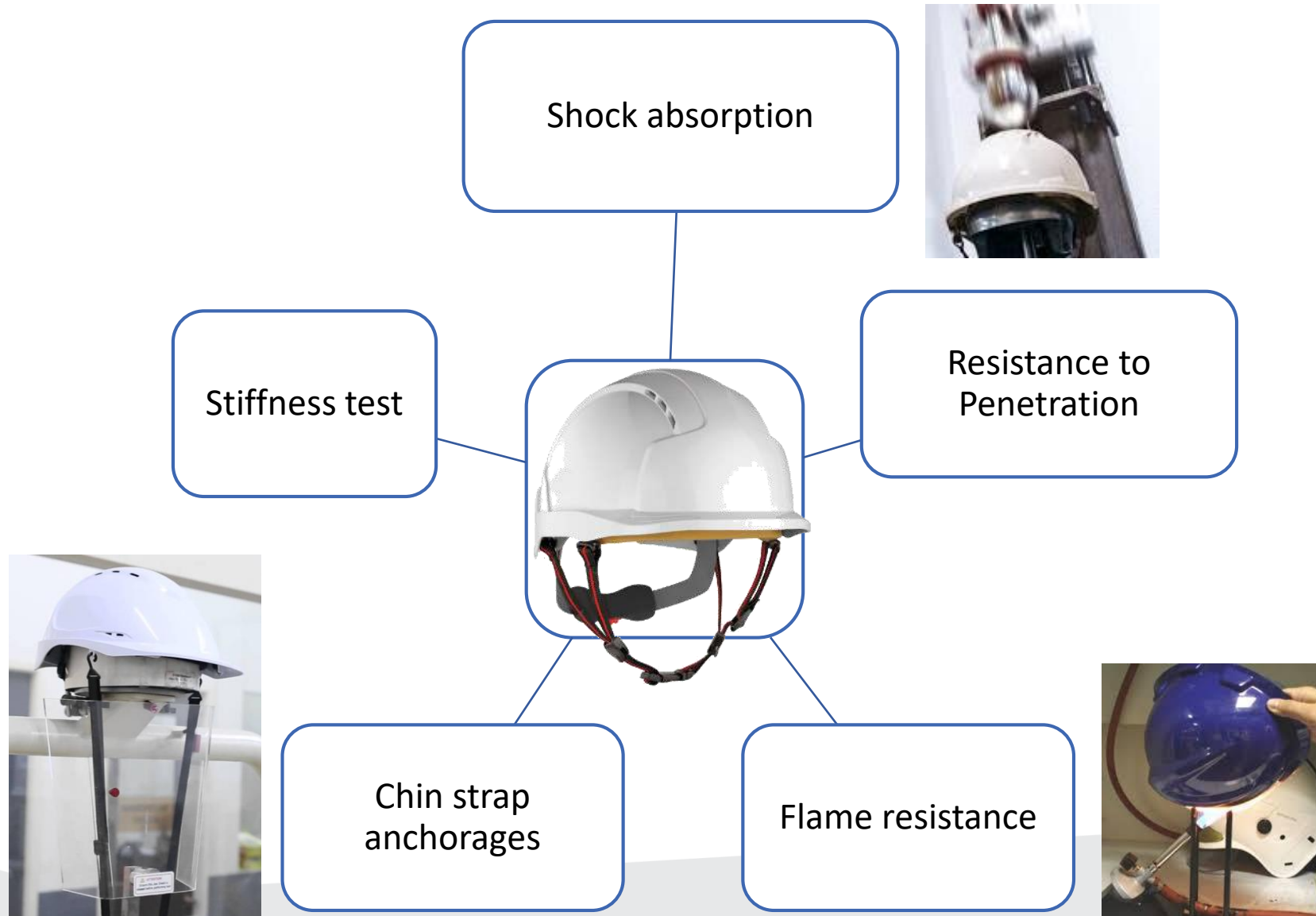
FALL PROTECTION DEVICES

- EN 353-2, EN 354, EN 355, EN 358, EN 360, EN 361, EN 362, EN 795 and EN 813

RESPIRATORY PROTECTIVE DEVICES

- EN 140, EN 143, EN 149 and EN 14387

INDUSTRIAL SAFETY HELMET



SAFETY EYEWEAR

EN 166 & ANSI Z87.1

- Design & material
- Field of vision
- Spherical, astigmatic and prismatic refractive powers
- Transmittance
- Diffusion of light
- Quality of material and surface
- Robustness
- Increased robustness
- Resistance to ageing
- Resistance to corrosion
- Ignition
- Protection against high-speed particles

EARMUFF & EARPLUG

EN 352-1, EN 352-2, EN 352-3

- Sizing and adjustability
- Materials and construction
- Performance
- Cup rotation
- Headband force
- Cushion pressure
- Resistance to damage when dropped
- Insertion loss
- Resistance to leakage
- Cleaning and disinfection
- Ignitability
- Minimum attenuation

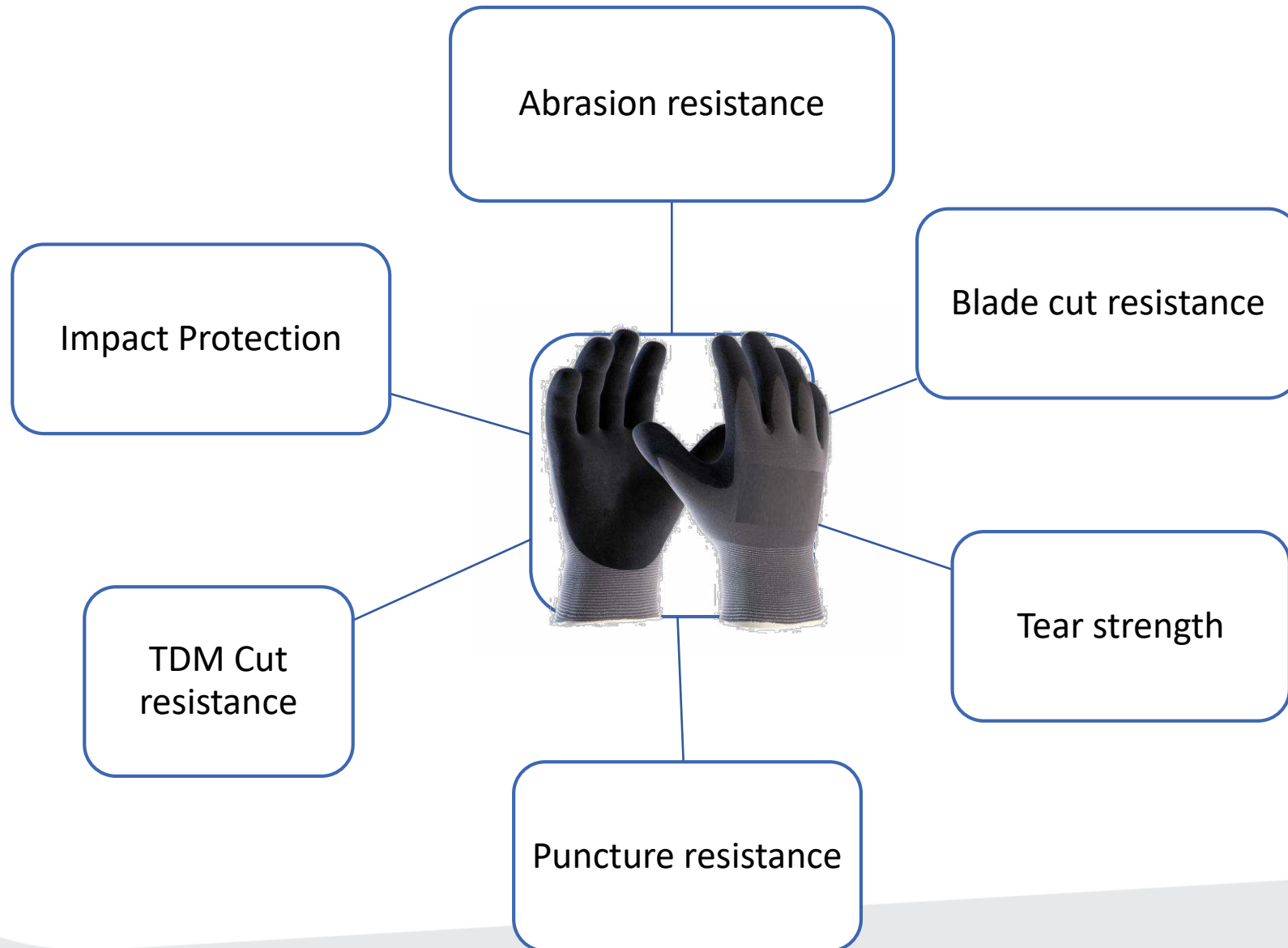


RESPIRATORY PROTECTIVE DEVICE

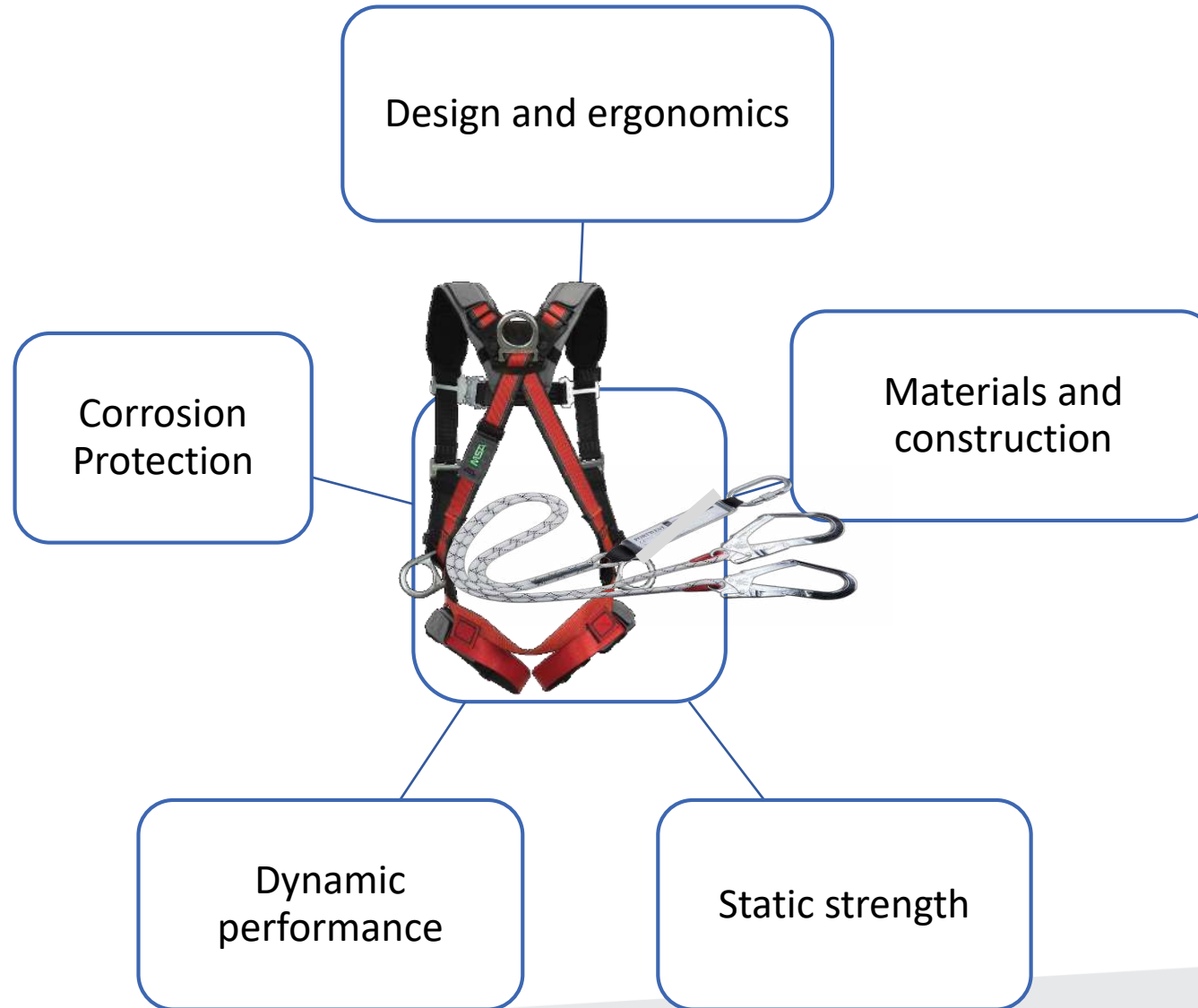
EN 140, EN 143, EN 149 & EN 14387

- Visual inspection
- Packaging
- Material
- Cleaning and disinfecting
- Practical performance
- Finish of parts
- Penetration of filter material
- Total inward leakage
- Compatibility with skin
- Flammability
- Carbon dioxide content of the inhalation air
- Head harness
- Field of vision
- Exhalation valve(s)
- Breathing resistance

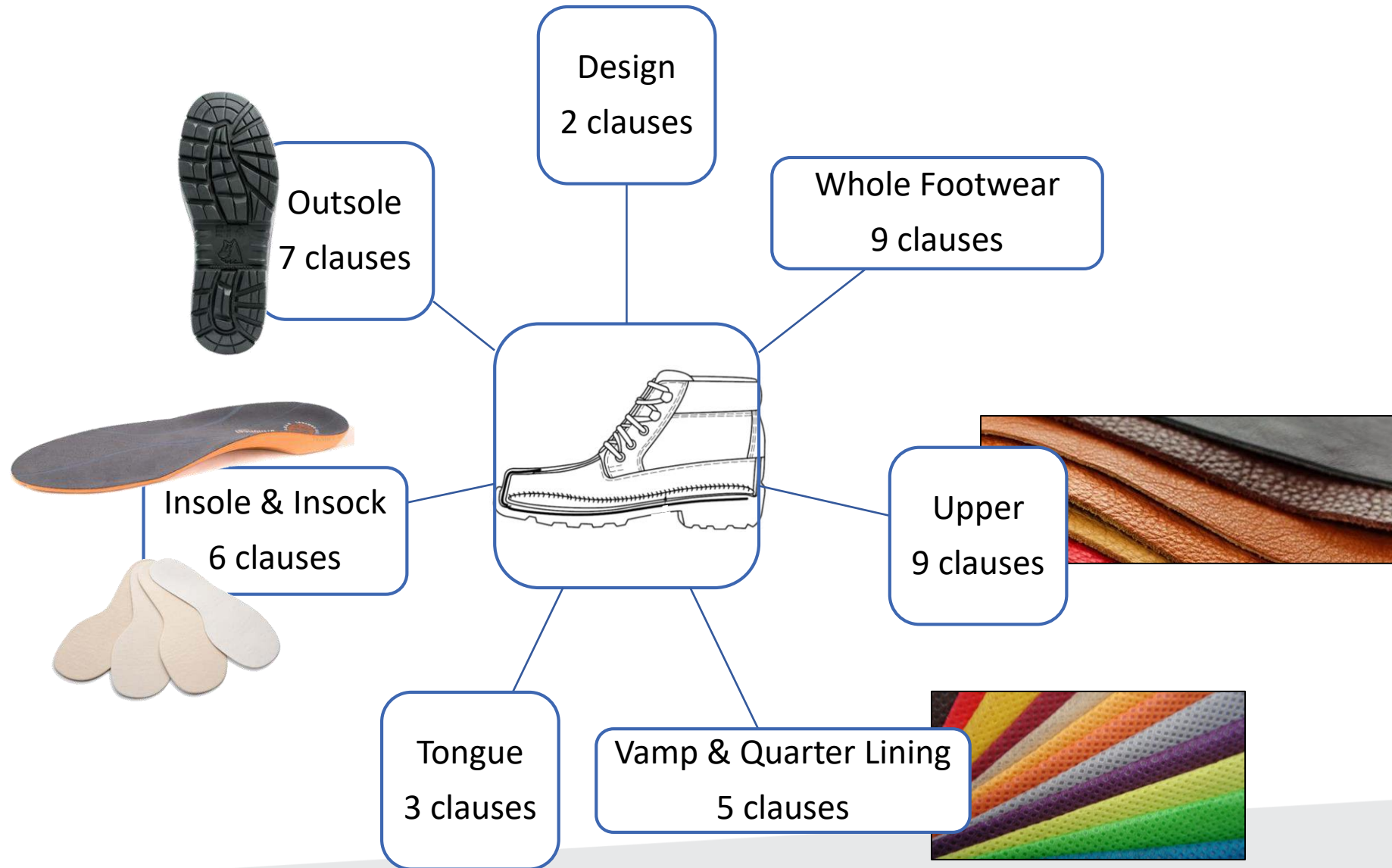
PROTECTIVE GLOVE



BODY HARNESS & DEVICES



SAFETY FOOTWEAR



ACCREDITATION AND RECOGNITION BY THE AUTHORITIES

	 JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN MALAYSIA		
MOTORCYCLE HELMET, ELECTRIC BIKE, ELECTRIC MOTORCYCLE, HEAD LAMP HPPE & AVCL LAB, MAST	PERSONAL PROTECTIVE EQUIPMENT (PPE), HPPE LAB, MAST 	GAS REGULATOR & WATER PRODUCT FGA LAB, MAST 	PACKAGING PUI LAB, MAST
	AVIATION LIGHT AVC LAB, MAST	MECHANICAL & AUTOMOTIVE SECTION, MAST	

Thank You!

You can find us at:

cserviceqas@sirim.my

Tel: +603-5544 6400

Any enquiry you may email to:-

Product Certification:

jailani@sirim.my/farihan@sirim.my/ramzi@sirim.my

Testing :

tashriff@sirim.my