Efforts, Lesson Learnt and Suggestions

Submitted by: Malaysia
Developing Competence Requirements and Career Path for Standards Professionals

Efforts, Lesson Learnt and Suggestions
23 - 24 January 2018
Singapore

Presented by:
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Senior Principal Assistant Director
Department of Standards Malaysia
Standards Malaysia is an agency under the Ministry of Science, Technology and Innovation (MOSTI).

Conformity assessment bodies consist of testing & calibration labs, inspection bodies and certification bodies.

Develop and promote Malaysian Standards (MS).

Accredit Conformity Assessment Bodies.

Conformity assessment bodies consist of testing & calibration labs, inspection bodies and certification bodies.

GOVERNED BY STANDARDS OF MALAYSIA ACT 1996 (ACT 549)
STANDARDISATION ACTIVITIES

Standards Development

National Standard Compliance Programme

Education about standardisation

STANDARDS MALAYSIA

Standardisation Division

Standards Utilisation Activities

EFFORTS
EDUCATION ABOUT STANDARDISATION
CHALLENGES

1. Awareness on the importance of standards and accreditation
2. Low uptake/usage of standards
3. Prepare more National standards and conformance experts
4. Quality enculturation in Malaysia

EDUCATION ABOUT STANDARDISATION
A programme spearheaded by Standards Malaysia to nurture and educate the younger generation on the importance of standards and conformance.
**INTENDED OUTCOME**

- Enhance Quality culture among future generation
- Create demand for quality - High performing products and services; better quality of life
- Increase national competitiveness – Wealth creation, job opportunities and employability
- Enrich local pool of experts on standards & conformance
- Sustain and improve the National Quality Infrastructure
NURTURING THE YOUNGER GENERATION

**The 5 target groups**

- **Education about standardisation**
  - For university students & staff and young professionals

- **Standards based seminars/short course/workshop**
  - For university students & staff and young professionals

- **Awareness programmes and short talks**
  - For kindergarten, primary and secondary school students

- **Standards based competition**
  - For secondary school students

- **Establish standards based syllabus/course via MOU with Institution of Higher Learning**
  - For university students

- **Standards based reference/educational materials**
  - For all 5 target groups

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**NEW LEADERS IN STANDARDISATION ACTIVITIES**

**APPLICATION OF ADVANCED KNOWLEDGE OF STANDARDS AND COMPLIANCE**

**APPLICATION OF STANDARD AND CONFORMANCE**

**BASIC CONCEPT IN STANDARD AND CONFORMANCE**

**INTERGRATION IN SYLLABUS AND TEACHING MODULES**

**BASIC APPLICATION OF STANDARDS AND CONFORMANCE**

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1. **KINDERGARTEN**
2. **PRIMARY SCHOOL**
3. **SECONDARY SCHOOL**
4. **UNIVERSITY**
5. **YOUNG PROFESSIONAL**
PROGRAMMES WITH PRIMARY SCHOOLS – OUTREACH PROGRAMMES
PROGRAMMES WITH SECONDARY SCHOOLS – WORKSHOP & COMPETITION-BASED
PROGRAMMES WITH SECONDARY SCHOOLS – INTERNATIONAL INVOLVEMENT

ACHIEVEMENT
2014
• Gold medal – SMK Bandaraya, Kota Kinabalu (middle school)
• Silver medal - SMK Aminudin Baki, KL (middle school)
2016
• Gold medal – SMK St. Joseph, Kuching (middle school)
• Silver medal - SMK Seri Pagi, Seremban (high school)
2017
• Silver medal – SMK Rantau Petronas, Kerteh, Terengganu (High school)
• Bronze medal - SMK Mutiara Rini 2, Skudai, Johor (high school)
PROGRAMMES WITH UNIVERSITIES

- Established 3 MOU (UUM, UM, USIM)
- Activities: Standards based-workshops and talks
STANDARDS AND UNIVERSITY MODULES

1. Knowledge on National Quality Infrastructure

2. Application on the type of standards required – International, National, Regional, Consortia, Company Standards

3. Application credible conformity assessment process – certification, testing & inspection

4. Traceability of measurement (Metrology) – calibration of measuring equipments

5. Hands on / Application of Management systems standards or vertical standards
YOUNG PROFESSIONAL PROGRAMME
PROGRAMMES WITH YOUNG PROFESSIONALS

National Young Professional Workshop 2013

The IEC Young Professionals Workshop, 10-12 October 2016, Frankfurt, Germany. (in parallel with the IEC 2016 General Meeting)

National Young Professional Workshop 2017
<table>
<thead>
<tr>
<th>Bil</th>
<th>Name</th>
<th>Organisation</th>
<th>Scope</th>
<th>Year</th>
<th>Location</th>
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<tbody>
<tr>
<td>2</td>
<td>Mr. Muhaimin Mat Salleh</td>
<td>SIRIM STS Sdn. Bhd.</td>
<td>Standards Development</td>
<td>24-26 October 2011</td>
<td>Melbourne, Australia</td>
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<td>3</td>
<td>nil</td>
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<td></td>
<td>1-3 October 2012</td>
<td>Oslo, Norway</td>
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<td>4</td>
<td>nil</td>
<td></td>
<td></td>
<td>21-23 October 2012</td>
<td>New Delhi, India</td>
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<td>5</td>
<td>Mr. Yau Chau Fong</td>
<td>Duriane Plant</td>
<td>Engineering consultancy</td>
<td>10-12 November 2013</td>
<td>Tokyo, Japan</td>
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<td>6</td>
<td>Tan Wee Ser</td>
<td>Kuala Langat Power Plant</td>
<td>Electrical Engineering</td>
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<td>7</td>
<td>Ms. Nadia Hazwani Yaakob</td>
<td>SKMM</td>
<td>Electrical Engineering</td>
<td>12-14 October 2015</td>
<td>Minsk, Belarus</td>
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<tr>
<td>8</td>
<td>Ms. Linda Wong Lu Min</td>
<td>Daikin Research &amp; Development Malaysia Sdn. Bhd.</td>
<td>Manufacturer</td>
<td></td>
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<td>9</td>
<td>Ir. Lee Cheng Pay</td>
<td>Duriane Consult</td>
<td>Consultation</td>
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<td>10</td>
<td>Mr. Low Pek Jun</td>
<td>NTT MSC Sdn. Bhd.</td>
<td>Engineering</td>
<td>10-12 October 2016</td>
<td>Frankfurt, Germany</td>
</tr>
<tr>
<td>11</td>
<td>Ms. Nor Iratul Munirah Mazani</td>
<td>SIRIM STS Sdn. Bhd.</td>
<td>Consultation</td>
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**OBJECTIVES**

- Encourage participation of young professionals in standards & accreditation activities
- Expand the pool of local standards & conformity assessment experts
- Increase direct contact with industry and develop the network of standards & accreditation young professionals in Malaysia
- Educating the young professionals on standards & accreditation – encourage the supply and demand of quality products & services – quality enculturation in Malaysia
- Preparedness to represent Malaysia in emerging technologies and future developments in the area of standards & accreditation
CRITERIA

- 35 years old and below
- 2-5 years working experience
- Possess the relevant educational qualification
- Scope: various
- Motivated & high interest in standardisation and accreditation
- Able to commit to standardisation & accreditation related activities either in Malaysia or at the international level (E.g. standards development meetings, accreditation assessments etc.)
BENEFITS

- Awareness on standards and accreditation
- Networking amongst young professionals
- Knowledge sharing platform
- Capacity building to increase/engage more young professionals in standards and accreditation related activities
- Identify new experts from the younger generation in standards/accreditation (succession plan)
OPPORTUNITIES

▪ Participation in National Standards Development Committee (ISC/TC & WG)
▪ Assessor in various schemes/fields (certification bodies, laboratory, inspection bodies)
▪ Participation in accreditation activities
▪ IEC Young Professional workshop
▪ Represent Malaysia in international standardisation/accreditation meetings
LESSON LEARNT AND SUGGESTIONS
## LESSON LEARNT AND SUGGESTIONS

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<tr>
<th>Challenges</th>
<th>Suggestions for improvement</th>
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<tr>
<td>Value preposition for standards in education modules to create competence and requirements for standards professional</td>
<td>1. Dynamic and responsive programme design and approach with collaboration with the key stakeholders such as Ministry of Education, Central agencies, trade associations, &amp; MNCs to create shared responsibilities and multiplying effects for programme wholesomeness and sustainability</td>
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<td>2. Participation in regional and international fora</td>
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<td>3. Continuous evaluation and feedbacks</td>
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THANK YOU

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