



**27th ASIA-PACIFIC LEGAL
METROLOGY FORUM
ONLINE MEETINGS
3-4 December 2020**



Working Group Report - 2020

NON AUTOMATIC WEIGHING INSTRUMENTS -NAWI

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SECTION 1 –Details of the membership of the Working Group

1. Ms. Suliana Ghazalli - CHAIR
National Metrology Institute Malaysia
2. Mr. Julian Crane - Member
Trading Standards, MBIE New Zealand
3. Mr. Kiveen P.Suycano - Member
National Metrology Laboratory, Philippines
4. Mr. Sudchai Srihajorndet - Member
Bureau of Weights And Measures (BWM) Thailand
5. Mr. Abdul Hafiz Azizan - Member
6. National Metrology Institute Malaysia

SECTION 2 – Key activities of 2019/20

- 2.0 Current Work Programme as agreed at the 26th APLMF Meeting in 2019, Vietnam :
 - 2.1 To develop an eLearning module for Spring Scale and Weighbridge. The activities are based on the documents ‘ How to develop an eLearning Module -Guide 8 ‘
 - 2.2 The activities to develop e-learning module for Spring Scale planned as followed:
 - 2.2.1 Development of Test Procedures
 - i. Visual Inspection
 - ii. Repeatability
 - iii. Weighing Performance
 - iv. Zero Setting
 - v. Maximum Permissible Error calculation
 - 2.2.2 Script for the animation
 - 2.2.3 Review by the expert
 - 2.2.4 QA signing (Final Document)
 - 2.2.5 Development of animated version
 - 2.2.6 Evaluation and assessment by the users
 - 2.2.7 Launching
 - 2.2.8 January 2021 to start with develop e-learning module for Weighbridge

2.3 Current Progress

- 2.3.1 All activities planned was behind the schedule due to Convid-19 pandemic all over the world
- 2.3.2 Expedite the activities by added new member on 24 September 2020, Mr Abdul Hafiz Azizan from National Metrology Institute of Malaysia
- 2.3.3 Reschedule planning to schedule concurrent activities for Spring Scales and weighbridge
- 2.3.4 Development of Test Procedures for both Spring Scales and Weighbridge -100% completed
- 2.3.5 Development of QUIZ – 50% completed
- 2.3.6 3rd Online meeting will be on November 2020 and all the communication from time to time by email and via Microsoft teams

SECTION 3 – Future focus - Recommendations

- 3.0 Planner for develop e-learning module for Spring Scale and weighbridge (combined)

Activities	Year 2020/2021			
	Oct 20 - Dec 20	Jan 21 – Apr 21	May 21- Aug 21	Sept 21- Dec 21
1. Development of Test Procedures Spring Scale and Weighbridge	100 % done			
2. Circulation Test Procedures among the members				
3. Develop Script for the animation				
4. Develop Quiz	50% done			
5. Document review by the expert				
6. QA Signing (Final Document)				
7. Evaluation and assessment by users				

SECTION 4 – Future focus – emerging issues

4.0 ISSUES

- 4.1 To consider the COST and limited knowledge especially in animation that involve in preparation of this module
- 4.2 To have a feedback or survey to the economies especially ASEAN for others type of balance for example mechanical balances
- 4.3 To have regularly discussion and meeting online (new norm) during the preparation of the module
- 4.4 To get more feedback of this e-learning module