
MEDEA: “Metrology – Enabling Developing Economies in Asia”

Training Course on Verification of Rice Moisture Meters

3-7 December, 2018 at EWMC, Pattaya, Thailand

Registration by 15 October, 2018

Introduction:

Grain moisture is an important area of measurement in legal metrology that is closely related to our confidence in international trade and quality of life. In order to improve skills in this field of measurement within the region, the APLMF Working Group Quality Measurement on Agricultural Products (QMAP) has conducted several training courses on traceability in rice moisture since 2001.

Objective:

This program is for trainees who wish to learn about grain moisture measurement. Rice is selected as the primary product although other products are discussed. This training is composed of lectures and practical activities which will use rice moisture meters, drying ovens, and precise weighing instruments.

This course provides participants with the knowledge and skills to:

- understand international standards and recommendations;
- establish traceability by preparing a standard reference using the drying method
- and verify rice moisture meters.

Expected participants

Participants should be officers and technical experts who work in national/regional authorities or research institutes in metrology, who are involved in developing traceability system for rice moisture measurement or capacity building activities in their economy. On completion of this program, the participants are expected to lead the establishment of sound traceability systems within their economy by delivering training to their colleagues. Applicants should have at least one year of practical experience in the verification of measuring instrument.

Organizers:

1. Physikalisch-Technische Bundesanstalt (PTB)
2. Asia-Pacific Legal Metrology Forum (APLMF)

Supporting Organizations:

1. Department of Internal Trade (DIT), Ministry of Commerce, Thailand
2. National Metrology Institute of Malaysia (NMIM), SIRIM Berhad

Trainers:

1. Surachai Sunzikaw, QMAP WG Chair
2. Mrs. Haslina bte Abdul Kadir, NMIM, SIRIM Berhad, QMAP WG Co-Chair
3. Mr. Norihiro Yoshida, Kett Electric Laboratory
4. Ms. Mihoko Yabe, Kett Electric Laboratory
5. (Additional 1 or 2 trainers from Kett Elec. TBA)
6. Mr. Sophearath Ing, NMC (National Metrology Center) in Phnom Penh / QMAP WG Member (Assistant trainer)
7. Mrs. Eri Wijayanti, DoM (Direktorat Metrologi) in Bandung, QMAP WG Member (Assistant trainer)
8. Mr. Thuc Ha Thanh, STAMEQ (Directorate for Standards, Metrology and Quality) in Hanoi, QMAP WG Member (Assistant trainer)

Venue and Accommodation:

- Training will take place at a Pullman Pattaya Hotel G in Pattaya, located 130 km south of Bangkok, and Eastern Weights and Measure Center (EWMC) of DIT in Chon Buri. Accommodation for participants, will be booked and paid for by PTB.
- To access the venue, you will need to take the airport limousine to the hotel. The cost of the transfer will be covered by PTB. If you need a visa to enter Thailand, fill in the attached “**Visa Assistance Form**” and send it to the **host in Thailand** by **October 15, 2018**.

PTB Support:

Up to two overseas participants from each developing economy in Asia will receive an economy return flight ticket, free accommodation, free airport transfer and full board during the days of training. Participants from economies classified as developing countries under the OECD Development Co-operation Directorate (ODCD-DAC)¹ are eligible.

Flight tickets will be booked directly by PTB (please contact Anne Hoepfner). The hotel will be paid by PTB. Participants will receive full board which includes breakfast, lunch, dinner as well as coffee breaks during the workshop.

¹ see <http://www.oecd.org/dac/stats/daclistofodarecipients.htm>. Eligible economies in Asia: Bangladesh, Bhutan, Cambodia, Laos, Myanmar, Nepal, Fiji, India, Indonesia, Mongolia, Pakistan, Papua New Guinea; Philippines, Sri Lanka, Vietnam, China, Malaysia, Thailand, Kyrgyzstan, Kazakhstan, Uzbekistan

Registration:

Please complete the “**Nomination Form**” and send it to Anne Hoepfner by **15 October, 2018**.

Currency and Credit Cards:

The local currency is Baht. Major credit cards (Visa, Master Card, etc.) are accepted in Hotels and big department stores. The exchange rate for 1 USD is about 31 Baht.

Climate:

The average temperature is about 20°C - 33°C in December in Pattaya.

Electricity Supply:

Voltage of power supply is 220 volts AC with 50 Hz. The power plugs used in Thailand are A, B and C.



Plug and socket of Type A, B and C

Local Time:

UTC +7 without summer time

Contact Persons:

APLMF Secretariat

Ms. Alli Smith

C/- Trading Standards

Ministry of Business, Innovation & Employment (MBIE)

PO Box 1473, Wellington 6140, New Zealand

Telephone: 0064-4-4601367

E-mail: secretariat@aplmf.org

PTB /MEDEA project (Registration, Flights, Hotel Reservations)

Ms. Anne Hoepfner

Bundesallee 100, 38116 Braunschweig, Germany

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Host in Thailand (Visa assistance, Venue and access information)

Mrs. Benjamas Winya

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Training Course on Traceability in Rice Moisture Measurement
3-7 December, 2018 at Pattaya, Thailand

Day 1 Monday 3 Dec Pullman Pattaya Hotel G	8:30-9:00	<i>Registration</i>
	9:00-09:30	Opening addresses by APLMF, and host. A group photo.
	09:00-10:00	<i>Coffee / tea break</i>
	10:00-11:30	Economy reports (APLMF).
	11:30-12:00	Traceability and metrological control system on grain moisture measurement in Thailand (Surachai)
	12:00-13:30	<i>Lunch break</i>
	13:30-13:40	Explanation of schedule and outline (Surachai)
	13:40-15:00	Traceability in grain moisture measurement including APLMF Guide Document on Rice Moisture Measurement, OIML R59 & ISO 7700 (Surachai, Haslina)
	15:00-15:30	<i>Coffee / tea break</i>
	15:30-17:00	Lectures on ISO 712 (Haslina)
	18:00-20:00	<i>Welcome dinner hosted by Department of Internal Trade (DIT) at Moom Aroi Seafood Restaurant</i>
Day 2 Tuesday 4 Dec EWMC	8:30	Leave the hotel by bus provided by the host.
	9:00-10:00	Instruction, demonstration and practice on an oven method (ISO 712) in groups using one oven/group (Haslina).
	10:00-10:30	<i>Coffee / tea break</i>
	10:30-12:00	Continue the oven method (ISO 712) (all trainers).
	12:00-13:00	<i>Lunch break</i>
	13:00-15:00	Lecture on how to use moisture meters (Yoshida)
	15:00-15:30	<i>Coffee / tea break</i>
	15:30-17:00	Practice on meter-to-meter calibrations (all trainers).
17:30	<i>Back to the hotel by bus.</i>	
Day 3 Wednesday 5 Dec EWMC	8:30	Leave the hotel by bus.
	9:00-10:00	Demonstration and practice on another oven method (Yabe and all trainers)
	10:00-10:30	<i>Coffee / tea break</i>
	10:30-12:00	Continue the oven method, and start another practice on meter-to-meter calibrations (all trainers).
	12:00-13:00	<i>Lunch break</i>
	13:00-15:00	Continue the practice (all trainers).
	15:00-15:30	<i>Coffee / tea break</i>
	15:30-17:00	Continue the practice (all trainers).
17:30	<i>Back to the hotel by bus.</i>	
Day 4 Thursday 6 Dec EWMC	8:30	Leave the hotel by bus.
	9:00-10:00	Practice of meter-to-meter calibration between the master and working meters and summary of the measurement results (all trainers).
	10:00-10:30	<i>Coffee / tea break</i>
	10:30-12:00	Continue the practice in the group (all trainers).
	12:00-13:00	<i>Lunch break</i>
	13:00-14:30	Continue the practice in the group (all trainers).
	14:30-15:00	<i>Coffee / tea break with data analysis</i>
	15:00-16:30	Report of the measurement results by each group. Summary discussion for the future (Chairs: Surachai, Haslina & Yoshida)
18:00-20:00	<i>Farewell dinner hosted by MEDEA at The Glass House Pattaya</i>	
Day 5 Friday 7 Dec EWMC	7:30-12:00	Technical tour in Chachoengsao province
	12:00-13:00	<i>Back to EWMC and have a lunch break</i>
	13:00-13:30	Closing ceremony with bestowal of the certificates
	13:30	<i>Back to the hotel by bus.</i>