

### List of Trainings and Workshops organized by AFRL for HMTE from 2013 to 2018

International/ASEAN level

S/N	Date of workshop/training (MM/YY)	Title of workshop/training	Details of participating labs e.g. No of labs and countries
1	Jan 2013	Training Programme on Technological Advance in Food Laboratory: Analysis of Heavy Metals and Trace Elements in food by Atomic Absorption Spectrometry (AAS), Graphite furnace (GF)-AAS and Inductively Couple Plasma Mass Spectrometry (ICP-MS)	4 persons from Government Analyst's Department, Sri Lanka
2	June 2013	Training on Instrumental Analysis of Chemical Contaminant in Foods: -Determination of Arsenic in food by AAS - Hydride generation system	1 person (WHO fellow), Myanmar
3	May 2015	<p>The 1<sup>st</sup> Workshop of <b>ASEAN-PTB Project</b> on Strengthening Food Safety in ASEAN at Department of Medical Sciences, Ministry of Public Health, Thailand:</p> <ul style="list-style-type: none"> <li>- Demonstration of analysis of heavy metals in water, using ICP- Optical Emission Spectrometry (OES)</li> <li>- Demonstration of analysis of heavy metals (Cd and As) in rice, using GFAAS with Ultrawave digestion</li> <li>- Quality Assurance of analysis of heavy metals</li> <li>- Workshop on method validation for chemical testing</li> </ul>	<ul style="list-style-type: none"> <li>• 18 participants from 9 AMSs: Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam;</li> <li>• 1 person from the National Metrology Institute of Germany (PTB)</li> </ul> <p><i>This workshop was parts of the collaborative ASEAN-PTB project, supported by PTB Germany, AFTLC and AFRL for HMTE.</i></p>

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4	April 2016	<p>The 2<sup>nd</sup> Workshop of <b>ASEAN-PTB Project</b> on Strengthening Food Safety in ASEAN at Agri-Food &amp; Veterinary Authority (AVA) of Singapore, Singapore:</p> <ul style="list-style-type: none"> <li>- Discussion of the PT results in drinking water</li> <li>- Exchange on knowledge dissemination and on establishment of laboratories network among AMSs</li> <li>- Workshop on estimation of measurement uncertainty for chemical testing</li> </ul>	<p>18 participants from 9 AMSs: Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam.</p> <p><i>This workshop was parts of the collaborative ASEAN-PTB project, supported by PTB Germany, AFTLC, AVA of Singapore and AFRL for HMTE.</i></p>
5	Nov 2017	<p>Training course on a sample preparation by microwave digestion and quantification of heavy metals by Atomic Absorption Spectrophotometer (AAS) and Inductively Couple Plasma Mass Spectrometry (ICP-MS) in oils and fats</p> <p><u>Achievement:</u> After the training course, the trainees were evaluated by analyzing an unknown oil sample, their results are satisfactory.</p>	<p>2 participants from Laboratory for Quality Testing of Goods, Directorate of Standardization and Quality Control, Ministry of Trade of Indonesia</p>

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6	May 2018	<p>Training course on a sample preparation by microwave digestion and quantification of heavy metals by Inductively Couple Plasma Mass Spectrometry (ICP-MS) in fish, tea leaf and fruit juice</p> <p><u>Achievement:</u> After the training course, the trainees were evaluated by analyzing an unknown apple juice sample, their results are satisfactory.</p>	1 person from Government Analyst's Department, Sri Lanka