

SMIIC MC Work Plan for 2024-2026

Version 3 (Final)

30.04.2026

The SMIIC MC, briefly, intends to harmonize and facilitate the activities in metrology area in the Member States based on international arrangements and regional metrology organization membership requirements by organizing necessary metrological activities. The SMIIC MC aims to contribute to enhancement of the technical and metrological capabilities of Member States and facilitation of the removal of technical barriers to trade. In line with these objectives, the SMIIC MC Work Plan 2024-2026 was prepared by the Task Force Group which was constituted during the 13th SMIIC MC meeting as per the resolution 16/2023.

The SMIIC MC Work Plan 2024-2026 covers the main activities planned for implementation by the SMIIC MC Member States for three years and is supposed to be coordinated by the Metrology Council Chairmanship and SMIIC Gneral Secretariat. The planned activities such as trainings, workshops, seminars, consultancies, etc. will be organized online and physical (in-person) at the host NMI/DI premises with involvement of the Members' National Metrology Institutes and Designated Institutes. This plan may be subject to intermediate revision once a year in case new requirements received from the Members and this will be made at the end of every year as a preparation for the upcoming new year. The activities in the scope of the SMIIC MC Work Plan 2024-2026.V3 that cover the main activities of 2026 are as follows.

1. TRAINING

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.	Training	The planned trainings, depending on the host NMI/DI availability and Member States' preference, will be realized online (virtual) or physical (in-person) with the organisation of TÜBİTAK UME and SMIIC GS in coordination with the responsible host NMI/DI. The training requirements and expenses are covered by the Host NMIs/DIs, SMIIC GS and participants. Training details are presented below. Application procedures including a short description of the training and the final planned dates will be announced enough in advance the trainings to be realised.					
1.1	Scientific Metrology	These trainings are related to scientific metrology comprising theory, procedures, standards, guides, calculations and applications.					
1.1.25	CRMs	Calibration of measuring instruments for harmonic components of voltage and current with calculation of uncertainty		Online			
1.1.27	Chemical	Measurement of pH by Glass electrode method and calibration of pH-meter and Calculation of uncertainty of measurement pH and calibration of pH-meter	Training need of SASO NMCC				
1.1.28	Chemical	Primary pH measurements in Harned cells and Uncertainty evaluation for primary pH measurement	Training need of SASO NMCC				
1.1.31	Volume	Calibration of Small Volume Vessels and Piston Operated Pipettes	Training need of UNBS	In person		4 days	
1.1.32	Pressure	Training on calibration of Piston pressure balances and gauges					
1.1.33	Reference Materials	Production and validation of Reference Materials	Training need of UNBS	Online			

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.1.34	Thermometry	Calibration of Dry Block Temperature Calibrators by Comparison Method	Training need of UNBS	In person			
1.1.35	Humidity	Calibration and Uncertainty Evaluation for Thermo-Hygrometers	Training need of UNBS	Online			
1.1.36	Thermometry	International Temperature Scale (ITS-90) and Calibration of Reference Thermometers (SPRT, HTPRT) at Fixed-Points	Training need of UNBS	Online			
1.1.37	Thermometry	Calibration of Platinum Resistance Thermometers and Digital Thermometers by Comparison Method	Training need of UNBS	Online			
1.1.38	Thermometry	Calibration of Thermocouples by Comparison Method	Training need of UNBS	Online			
1.1.39	Electrochemistry	Calibration of pH Meters	Training need of UNBS	Online			
1.1.40	Electrochemistry	Electrolytic Conductivity and Calibration	Training need of UNBS and RSE Kazstandard	Online			
1.1.41	Electrochemistry	Introduction to voltammetry, electrodes, potential scanning modes, method validation in voltammetric analysis	Training need of UNBS	Online			
1.1.42	Electrochemistry	Standard solutions reproducing the conductivity of electrolytes. Calculation of uncertainty of reference materials.	Training need of KazStandard RSE	Online			
1.1.43	Mass	Calibration of mass comparator and weight up to 20 kg.	Training need of KazStandard RSE	Online			
1.1.44	Reference Materials	Production and validation of Reference Materials	Training need of UNBS	In person			

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.1.46	Spectro Photometry	The photometric characteristics of light sources and calibration of measurement devices	Training need of UNBS and RSE Kazstandard	Online			
1.1.47	Viscosity	Viscosity Metrology	Training need of UNBS	Online			
1.1.48	Pressure	Training on calibration of Pressure transducer and Transmitters	Training need of UNBS	Online			
1.1.50	Electrical	Training in calibration of electrical power analysers	Training need of UNBS	Online			
1.1.51	Electrical	Time and Frequency scales and dissemination training	Training need of UNBS	Online			
1.1.52	Electrical	Training on realization of an Ampere and Resistance using Quantum hall experiment					
1.1.53	Accoustics And Vibration	Accoustics and vibration metrology	Training need of UNBS	In person			
1.1.55	Dimension	Calibration of Depth Gauges according to ISO 13385-2: 2020	Training need of UNBS	Online			
1.1.57		Principles of precious metals and gemstone.	Training need of COSQC				
1.1.58		Course in gold processing.	Training need of COSQC				
1.1.59	Pressure	Calibration of Pressure Transmitters and Sensors in Accordance with EURAMET cg-17 and DKD-R 6-1 (Latest Revisions)	EMI	Online	23- 9- 2026	1 day	Mr. Brian Justice
1.1.60	Pressure	Calibration of Pressure Balances (Deadweight Testers) and Basic Pressure Safety in Accordance with EURAMET Calibration Guide No. 3 (Latest Revision)	EMI	Online	8-10 Dec 2026	3 days	Mr. Brian Justice

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.1.61	Interferometer	Calibration of gauge block by interferometer.	Training need of COSQC	Online			
1.1.62	Humidity	Dew-Point Meters, Calibrations and Uncertainty Evaluation		Online			
1.1.63	Mass	Uuncertainty of Measurements	EMI	Online	16-6-2026	1 day	Eng Asma Al Hosani
1.1.64	Torque and Hardness	Calibration of torque and micro hardness measures.	Training need of COSQC	Online			
1.1.65	TF	Signal power calibration and uncertainty calculation	Training need of UzNIM	Online			
1.1.66	AUV	Calculation of uncertainty and calibration of sound pressure height measuring devices (Noise meters).	Training need of UzNIM	Online			
1.1.67	AUV	Primary calibration and uncertainty calculations in vibrosensors and vibrometers with laser	Training need of UzNIM	Online			
1.1.68	RF	Network equivalent (oscillation damping) calibration and uncertainty calculation	Training need of UzNIM	Online			
1.1.69	M	Calibration of electronic scales and calculation of uncertainties	Training need of UzNIM	Online			
1.1.70	Mass and related quantities Gas flow	Calibration of critical microscopes and calculation of uncertainties	Training need of UzNIM	Online			
1.1.71	Mass and related quantities Gas flow	Calibration and uncertainty calculation of electromagnetic, ultrasonic, Coriolis and Vikrev flowmeters	Training need of UzNIM	Online			
1.1.72	Density and viscosity liquid DV	Measurements and testing methods for determining the physico-chasmacal characteristics of petroleum products	Training need of UzNIM and RSE Kazstandard	Online			

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.1.73	S	Tachometer calibration and uncertainty calculation	Training need of UzNIM	Online			
1.1.74	L	Calibration and uncertainty calculation of measuring instruments	Training need of UzNIM	Online			
1.1.75	EM	Calibration of high-precision calibrators and calculation of uncertainties	Training need of UzNIM	Online			
1.1.76	Dimension	Dimensional Calibration with reference to JIS Standards	EMI	Online	14-12-2026	1 day	Mr. Majed AISenaidi
1.1.78	Mass	Gravimetric calibration of micropipettes	EMI	Online	10-8-2026	1 day	Mr. Nahayan Almenhali
1.1.79	Mass	Basic mass metrology	EMI	Online	10 -11-2026	1 day	Mr. Khaled Almazrouei
1.1.81	Management System	ISO/IEC 17043:2023: Implementation, Risks and Recommendations (UzNIM Case Study)	UzNIM	Online	21/11/2025	1 day	Elena Ogay
1.1.85	Proficiency Test	Statistics behind ISO 17043	SASO/NMCC	Training	2026		
1.1.86	PT Automation Program	Pythonic App for automating ISO 13528 standard	SASO/NMCC	Training	2026		
1.1.87	Density	How to measure the density of solid weights and density of liquids	SASO-NMCC	Online	1st half /2026	1 day	
1.1.88	Viscosity	How to measure viscosity of liquids and calibration of master viscometer	SASO-NMCC	Online	1st half /2026	1 day	
1.1.93	Gravity	General Gravity FG5-X	SASO- NMCC	Online	1st half /2026	1 day	
1.1.95	Voltage	Training in calibration of DMM	SASO/NMCC	Online	04/05/2026	1 day	

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.1.98	Length	Calibration of Gauge Blocks by Mechanical Comparison Method	SASO-NMCC	Online	2026		
1.1.102	Chemical	Preparation and measurement of CRM pH	SASO-NMCC	Online	12/2026		
1.1.103	Chemical	The role of the reference material "a mixture of gases" in our daily life	SASO-NMCC	Online	2026		
1.1.104	Chemical	Why Every Metrology Institute Should Have a Gas Measurement Laboratory	SASO-NMCC	Online	2026		
1.1.105	AC power	Power Meter Calibration Training	SASO/NMCC	Online	2026/08/03	1 day	
1.1.113	Scientific Metrology	Common Metrology Principles	EMI	Online	6-5-2026	1 day	Dr. Hala M. Abdel Mageed
1.1.114	Electrical	Electrical Calibrations and associated uncertainties	EMI	Online	3&4-6-2026	2 days	Dr. Hala M. Abdel Mageed
1.1.115	QMS	Preparing a calibration & testing labs for accreditation	EMI	Online	1-7-2026	1 day	Dr. Hala M. Abdel Mageed
1.1.116	QMS	Metrology Index for OIC countries in QIS4SD	EMI	Online	5-8-2026	1 day	Dr. Hala M. Abdel Mageed
1.1.117	QMS	Preparing PT Providers for accreditation	EMI	Online	2-9-2026	1 day	Dr. Hala M. Abdel Mageed
1.1.118	QMS	How to be a technical assessor according to ISO 17025	EMI	Online	7-10-2026	1 day	Dr. Hala M. Abdel Mageed
1.1.119	QMS	Statistical Analysis of PT performance evaluation	EMI	Online	4-11-2026	1 day	Dr. Hala M. Abdel Mageed

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.1.120	Electrical	Immersive electrical metrology for educational & training applications	EMI	Online	2-12-2026	1 day	Dr. Hala M. Abdel Mageed
1.1.121	Electrical	Training on Calibration of digital multimeters	EMI	Online	13-10-2026	1 day	Mr. Waleed Al Kalbani
1.1.122	Electrical	Uncertainty and Techniques for Oscilloscope Calibration	EMI	Online	19-8-2026	1 day	Mr. Jon Bartholomew
1.1.123	Humidity	Calibration and Uncertainty Evaluation for Thermo-Hygrometers	EMI	Online	7-7-2026	1 day	Dr. Miltiadis Anagnostou
1.1.124	Temperature	Calibration and Uncertainty Evaluation for Thermometers	EMI	Online	9-6-2026	1 day	Eng. Mayam Al Senaidi
1.1.125							
1.2	Legal Metrology	These trainings are related to legal metrology comprising theory, procedures, standards, guides, calculations and applications.					
1.2.16							
1.3	Halal Activities	These trainings are related to use of metrology in halal activities comprising theory, procedures, standards, guides, calculations and applications.					

No	Field	Title / Name	Host NMI/DI	Format	Date	Duration	Audience (Category) / Trainer
1.3.1	CRMs	Production of Ph Buffer solutions CRMs	Training need of UNBS	In person			
1.3.2	CRMs	Production of Conductivity solutions CRMs Production of Brix solution CRMs	Training need of UNBS	In person			
1.3.3	Halal Testing	Determination of Posine In Food Using The Different Methods	Training need of UNBS (Host: IMBiH)	In person			
1.3.4	CRMs	<ul style="list-style-type: none"> - Production of pH standard solutions/ and or secondary buffer using Baucke cell. - Preparation of buffer solutions. - Measurement using Baucke cell. - Related uncertainty of measurement. - Preparing of CRM certificate. 	Training need of SSMO	In person			
1.3.5	CRMs	Calibration of angular end measures with uncertainty calculation	Training need of KazStandard RSE				

2. INTERLABORATORY COMPARISONS (ILCs) and PROFICIENCY TESTS (PTs)

No	Field	Title / Name	Pilot	Type	Start date	Status	Participants
2	PTs and ILCs	In this activity there will be information related to the planned, ongoing and completed Profeciency Tests (PTs) and Interlaboratory Comparisons (ILCs). There might be seminars / workshops consisting theory, procedures, calculations and applications related to the PTs and ILCs within the relevant ones. Besides, the Member States should declare their requirements and the needs related to PTs and ILCs at the end of every year by a questionnaire so that these activities can be organized accordingly between the member NMIs.					

No	Field	Title / Name	Pilot	Type	Start date	Status	Participants
2.9	Electrochemistry	pH - meter calibration	Need For UNBS	ILC	-----	-----	
2.10	Electrochemistry	Density meter calibration	Need For UNBS	ILC			
2.11	Volume	Calibration of Piston micropipettes	Need For UNBS	ILC			
2.12	Volume	Calibration of microsyringes	Need For UNBS	ILC			
2.13	Volume	Calibration of volumetric flasks and measuring cylinders	Need For UNBS	ILC			
2.14	Thermometry	Calibration of PRTs	Need For UNBS	ILC			
2.15	Thermometry	Calibration of heating and cooling chamber (onsite)	Need For UNBS	ILC			
2.16	Thermometry	calibration of temperature guns	Need For UNBS	ILC			
2.17	Pressure	Pneumatic Pressure 0-50 bar	Need For UNBS	ILC			
2.18	DC and Low Frequency measurements	Digital Multimeter measurement (Voltage, Current and Resistance)	Need For UNBS	ILC			
2.19		Implementation of PTs programs (Mass, Volume, Pressure, Thermal measurements, Dimensions and medical) calibration measurements.	Need For SMMO	PTs			
2.20	TF	Supplementary comparison of time interval measurements	UzNIM				

No	Field	Title / Name	Pilot	Type	Start date	Status	Participants
2.21	AUV	Supplementary comparison of sound calibrators	UzNIM				
2.22	AUV	Supplementary comparison on secondary calibration of vibrosensors	UzNIM				
2.23	Mass and related quantities Fluid Flow	Supplementary comparison of fluid consumption measurement	UzNIM				
2.24	Mass and related quantities Fluid Flow	Supplementary comparison of gas consumption measurement	UzNIM				
2.25	Density and viscosity liquid	Supplementary comparison of liquid density (g/cm ³) and kinematic viscosity (mm ² /s)	UzNIM				
2.26	DV	Supplementary comparison of liquid density (g/cm ³) and kinematic viscosity (mm ² /s)	UzNIM				
2.27	S	Supplementary comparison of Mechanical stopwatch	UzNIM				
2.28	L	Supplementary comparison of flat parallelograms on the measuring surface	UzNIM				
2.29	Voltage	PT program regarding to iso Euremet CG-15	SASO/NM CC	PT	2026	Proposed	
2.30	Caliper	PT program regarding to ISO 13385-1	SASO/NM CC	PT	2026	Proposed	
2.31	Chemical	PT program in detritionation of CO in N ₂ or CO ₂ in N ₂	SASO/NM CC	PT	2026	Proposed	
2.32	Chemical	PT program in detritionation of CO ₂ in N ₂	SASO/NM CC	PT	2026	Proposed	



No	Field	Title / Name	Pilot	Type	Start date	Status	Participants
2.33	Density	Hydrometer (700,1000,1300,1800)	SASO Co-pilot	ILC	2026	Proposed	
2.34	Torque	PT program regarding to iso 6789 1/2	SASO/NM CC	PT	2026	Proposed	

3. JOINT WORK – CONSULTANCY – SEMINARS – WORKSHOPS

No	Field	Title / Name	Coordinator NMI/DI	Type	Start date	Duration	Participants
3.	Joint Work (JW), Consultancy (Con.), Seminars, Projects, Workshops (WS),	This activity contains possible joint work and consultancy programs, seminars and workshops in general that planned to be organised. In case of a need by a Member State to establish, enhance or re-organize their laboratory infrastructure consultancy service can be given by volunteer NMIs.					
3.2	Mass	Enhancement of the Mass laboratory capability to to enable calibration of E2 mass pieces	-----	JW	----		UNBS/ TÜBİTAK UME
3.3	Thermometry	Setting up of primary temperature lab	-----	JW	-----		UNBS
3.4	Halal food	Determination of Posine in Food Using The Different Methods	IMBiH	IN PERSON			UNBS
3.5	Flow	Setting Up Flow Laboratory Capacity for Calibration of All Flow Meter Types		JV			UNBS
3.6	Chemical Metrology	Consultation program to establish chemical metrology laboratory					SSMO
3.7							

4. RESEARCH and DEVELOPMENT (RD) PROJECT PROGRAM

No	Field	Title / Name	Coordinator NMI/DI	Start date	Duration	Participants
4	RD Project Program	In this activity there will be information related to the planned, ongoing and completed Projects under the SMIIC MC RD Project Program.				
4.1	Temperature, Volume and Electrical Metrology	Designing and implementtion of a system for calibration of vaccine production equipment				UNBS
4.2	Electrical	Designing and implementtion of a photometry laboratory				UNBS
4.3	Electrical	Designing and implementtion of a Quantum Hall				UNBS
4.4	Density	Density determination using hydraustatic method				UNBS
4.5	TF	Preparing a scientific project in cooperation with SMIIC members regarding the automatic control system of cesium clock data	UzNIM			Online/offline
4.6	AUV	Preparation of the scientific project of the calibration and comparison system of measuring microphones and sound pressure height measuring devices (Noise meters) in the acoustic chamber	UzNIM			Online/offline
4.7	Mass and related quantities Gas flow	Preparation of a scientific project in cooperation with SMIIC members on the creation of low-pressure gas consumption equipment	UzNIM			Online/offline
4.8	Density and viscosity liquid DV	Preparing a scientific project in cooperation with SMIIC members to create a standard model of kinematic and dynamic viscosity of liquids	UzNIM			Online/offline



NOTE:The items related to *PTs* and *ILCs* (item 2), private requests like *joint work, consultancy on a specific topic such as laboratory establishment, peer review of NMIs / DIs* (item 3) that might contain purchasing materials, transportation of artifacts, personnel travels and manpower are subject to payment of the expenses by participating NMIs / DIs.