

**Euro-Asian Cooperation of National Metrological Institutions
(COOMET)**


















CIPM MRA - Quality management systems COOMET practices

CBKT Online TE for CMC writers/Reviewers-KCDB-2.0
BIPM Capacity Building & Knowledge Transfer Programme
ONLINE TECHNICAL EXCHANGES

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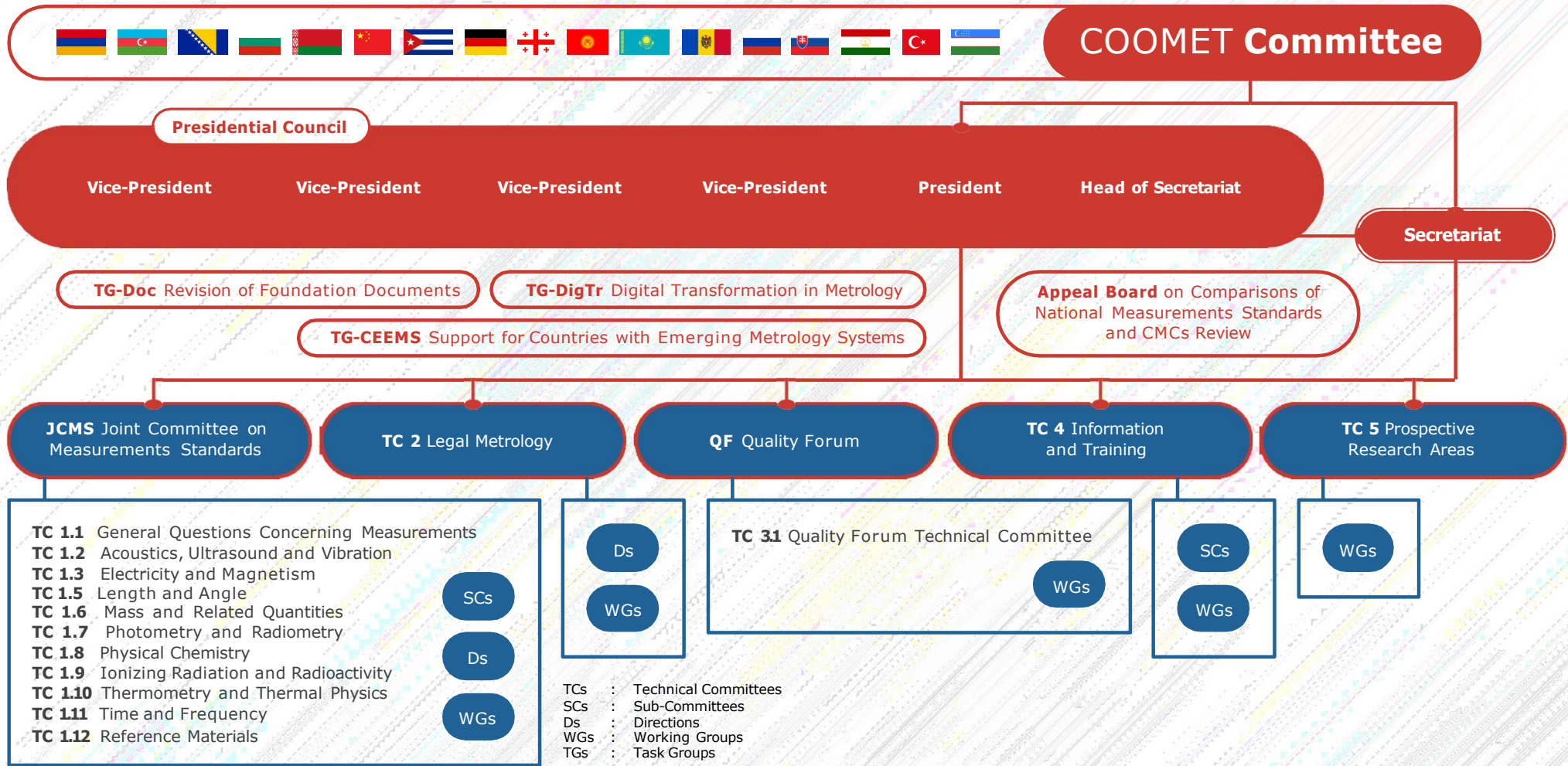
Cooperation between NMIs/DIs of 17 countries

	Armenia	COOMET Full Member, 2007	
	Azerbaijan	COOMET Full Member, 2007	Associate States of the CGPM, 2015
	Bosnia and Herzegovina	COOMET Associated Member, 2013	Associate States of the CGPM, 2011
	Bulgaria	COOMET Full Member, 1991	States Parties to the Metre Convention, 1911
	Belarus	COOMET Full Member, 1992	States Parties to the Metre Convention, 2020
	China	COOMET Associated Member, 2016	States Parties to the Metre Convention, 1977
	Cuba	COOMET Associated Member, 1991	Associate States of the CGPM, 2000-2021, 2024
	Germany	COOMET Associated Member, 1991	States Parties to the Metre Convention, 1875
	Georgia	COOMET Full Member, 2006	Associate States of the CGPM, 2008
	Kyrgyzstan	COOMET Full Member, 2000	
	Kazakhstan	COOMET Full Member, 1998	States Parties to the Metre Convention, 2008
	Moldova	COOMET Full Member, 1997	Associate States of the CGPM, 2007
	Russia	COOMET Full Member, 1991	States Parties to the Metre Convention, 1875
	Slovakia	COOMET Full Member, 1993	States Parties to the Metre Convention, 1993
	Tajikistan	COOMET Full Member, 2009	
	Türkiye	COOMET Associated Member, 2014	States Parties to the Metre Convention, 1875
	Uzbekistan	COOMET Full Member, 2004	States Parties to the Metre Convention, 2026

COOMET Membership



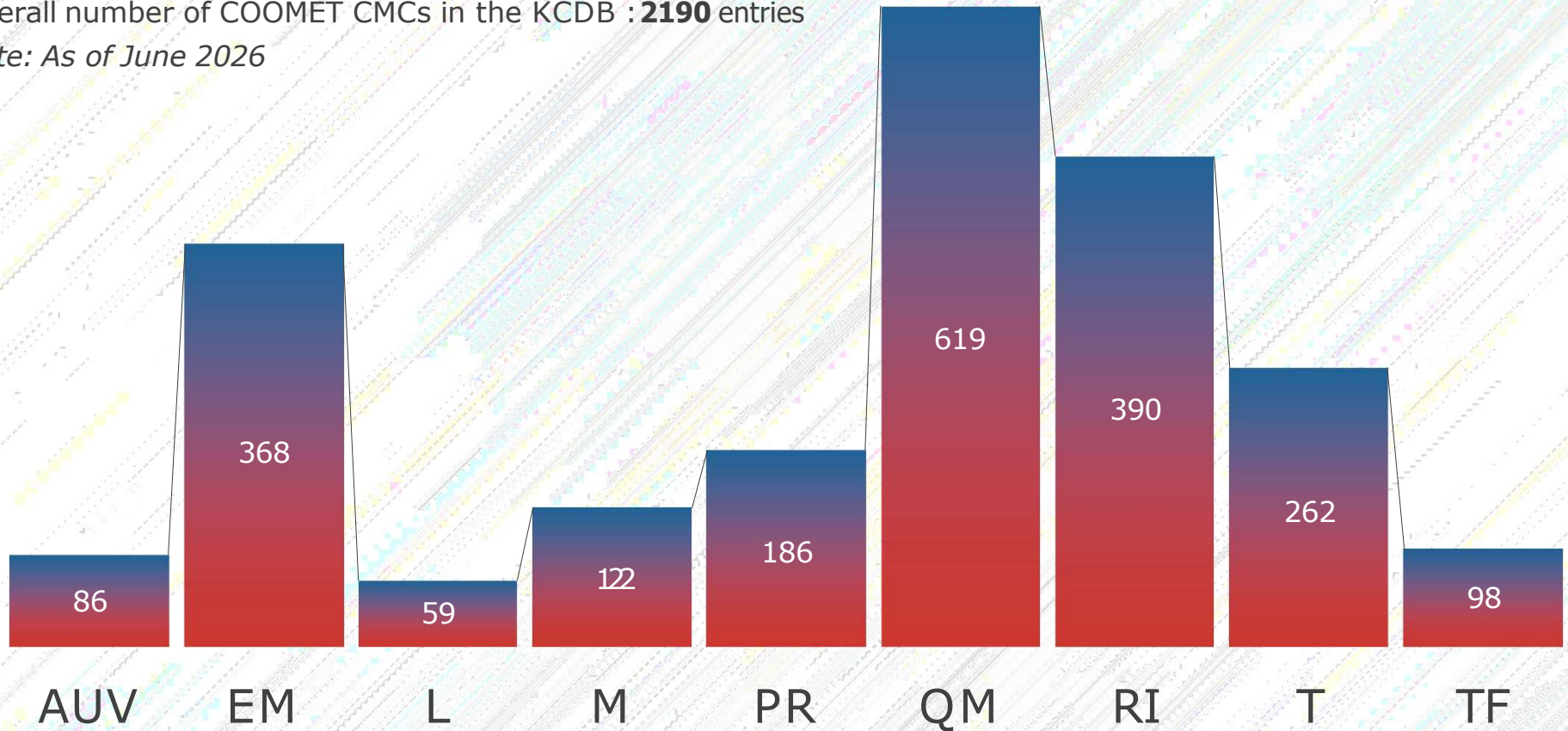
COOMET Organizational Structure



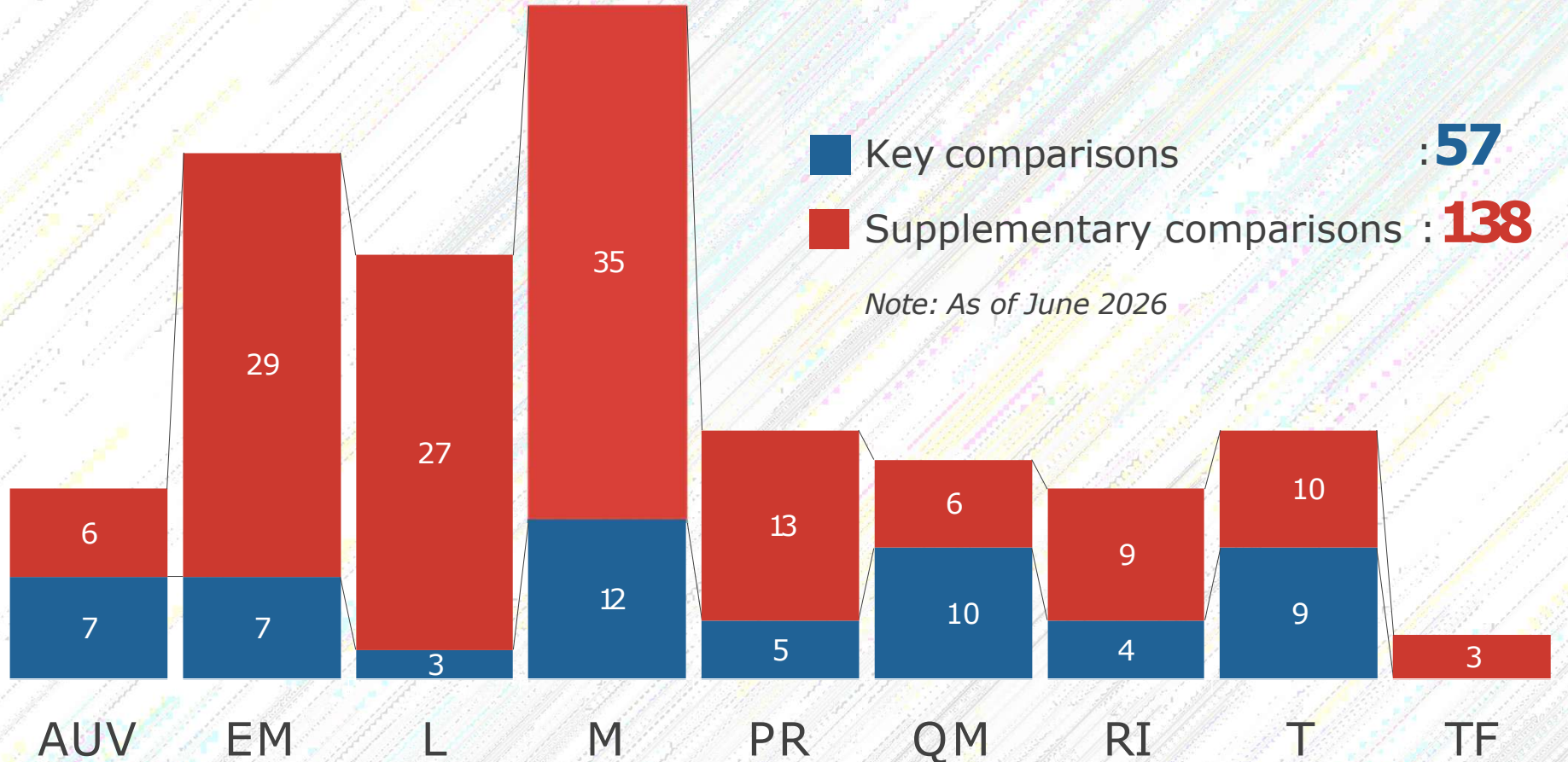
COOMET CMCs in KCDB by Metrology Area

Overall number of COOMET CMCs in the KCDB : **2190** entries

Note: As of June 2026



COOMET Comparisons in KCDB by Metrology Area



COOMET Strategic tasks of QMS

B. Facilitation of recognition of QMS of NMIs/DIs of COOMET member countries

One of the significant fields of cooperation within COOMET includes works on the establishment, maintenance and development of QMS of NMIs/DIs of COOMET member countries. This activity is aimed at the implementation of the requirements of the CIPM MRA in terms of introduction and application of QMS in accordance with the requirements of ISO/IEC 17025, ISO 17034.

The following actions to achieve Task B are determined:

- B.1.** Facilitation of the introduction of international standards (ISO/IEC 17025:2017 and ISO 17034:2016) into working practices of NMIs and DIs of COOMET member countries;
- B.2.** Conduct of peer reviews of QMS of NMIs and DIs of COOMET member countries;
- B.3.** Training of auditors and technical experts for peer reviews of QMS of NMIs and DIs of COOMET member countries;
- B.4.** Development of special requirements (criteria) for QMS of NMIs and DIs.



Requirements for Review, Approval, Monitoring

Review of QMS is carried based on review of written presentation and evaluation of oral presentation.

Written and oral presentations of the NMI/DI QMS are held in accordance with the schedule of the COOMET Quality Forum.

The written presentation includes information (Document: QSF-doc_002r_003e_anxB):

- ✓ Section 1: Structure of the NMI/DI
- ✓ Section 2: Information on development of the quality management system and implementation of the standards
- ✓ Section 3: Quality management system and calibration capabilities of NMI/DI covered by it
- ✓ Section 4: Functioning of the quality management



Requirements for Review, Approval, Monitoring

Orals presentation at the COOMET Quality Forum (Document code: QSF-doc_002r_003e_anxA):

Initial oral presentation of the QMS

- Information on the NMI/DI's QMS documentation.
- Information on compliance with managerial and technical requirements according to ISO/IEC 17025.
- Requirements of ISO/IEC 17025 that are currently being implemented within NMI/DI (have not been implemented yet).
- Requirements of ISO 17034 that have not been implemented yet or are just being implemented.
- Strong and weak points of the quality management system
- Problems occurring during the implementation of the quality management system and ways to their solution.

Periodic oral presentation

- Information about the change of the NMI/DI activities:
Position of the NMI/DI within the national metrological framework, types of measurements it is responsible for, functions of the institute in the field of metrology, personal, organizational structure, facilities, measurement standards, reference materials, documents issued by the NMI/DI for metrological works, International cooperation (participation in Consultative Committees of BIPM, number of CMCs included in the database of BIPM, number of comparisons included in the database of BIPM etc.).
- Quality Management System:
Quality Manual of the NMI/DI, evolution of the QMS for each year within the period under review, problems of the QMS, prospective development of the QMS etc.

Requirements for Review, Approval, Monitoring

- **The NMI/DI QMS is peer reviewed after a written and oral presentation** is carried out directly at the NMI/DI on the basis of an NMI/DI application for a peer review and in accordance with the schedule approved by TC 3.1.
- **A peer review of QMS is carried out by the audit team**, which includes auditors and technical experts of the COOMET Quality Forum. Auditors and technical experts for the peer review of the QMS of a specific NMI/DI are appointed by the Chairperson of the TC 3.1.
- When selecting auditors and technical experts, it should be borne in mind that they shall be from a different country than the NMI/DI that is being reviewed.
- The NMIs/DIs, no less than two months before the planned peer review date, submits to TC 3.1 the following documents:
 - application for a peer review of the QMS;
 - quality manual;
 - analysis of the effectiveness of the QMS from the management over the last year;
 - calibration procedures (instructions) supported by the calculation of the uncertainty for all CMC lines to be reviewed.
- All non-conformities that will be identified by the audit team during the peer review of the QMS are recorded in separate protocols.
- **Qualification requirements for experts and auditors should be** in accordance with the requirements of Joint Committee of RMO and BIPM (JCRB) and **CIPM MRA-G-12 (A3)**.

Requirements for Review, Approval, Monitoring

COOMET conducts peer review directly, without third-party involvement.

Peer review is carried out in accordance with criteria stated in COOMET Recommendations.

The steps and procedure for conducting a peer review of the NMI/DI QMS are set out in the COOMET Recommendation R/AQ/13:2026 "Rules and Procedure for the evaluation the quality management systems of national metrology institutes / designated institutes (NMI/DI)".

Experts and auditors from **other RMOs** can be involved in the audit team based on agreement with host party.

When conducting a peer review of the quality management system of NMI/DI audit team checks functioning of the QMS.



Specific Points for Peer Visits

Visits of the auditor and technical experts to the NMI/DI

External assessment at the NMI/DI premises is conducted by the audit team in accordance with COOMET Recommendations QSF-doc_002r and QSF-doc_003r, as well as with the CIPM MRA guidance documents (CIPM MRA-G-12).

Visits of the auditor and technical experts to the assessed NMI/DI may take the following forms:

- A combined external assessment, during which the auditor and experts evaluate the quality management system and the technical areas within a single time period.
- An external assessment conducted by the auditor and technical experts at different times (with a total duration not exceeding three months), agreed with TC 3.1 and the applicant. The duration of each visit of the auditor or experts to the NMI/DI shall not exceed three days, excluding travel time. The on-the-job training of an auditor candidate shall be performed jointly with the auditor during the auditor's work period.

If necessary, the QMS assessment of an NMI/DI by the commission may be carried out fully or partially using remote assessment techniques, applying information and communication technologies, subject to agreement with TC 3.1 and the applicant.



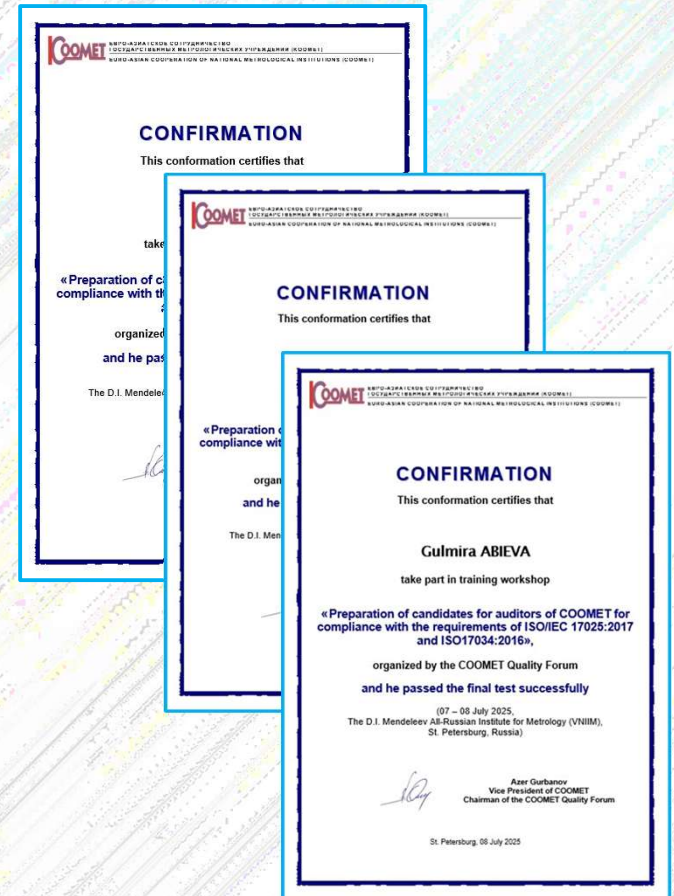
Requirements for Review, Approval, Monitoring

- TC 3.1 decides on the results of the peer review of the NMI/DI QMS and presents them to COOMET Quality Forum. A vote on the results of peer review is carried out at the next meeting of TC 3.1 or by electronic voting.
- TC 3.1, with positive results of a vote on the outcomes of a peer review of the NMI/DI QMS, sends to the NMI/DI a document. The Confirmation of recognition is issued for five years.



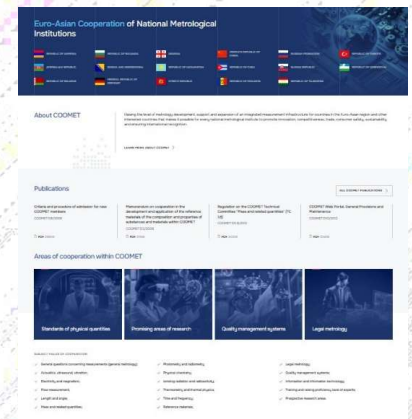
COOMET Auditor Training ISO/IEC 17025 and ISO 17034

COOMET Auditor Training was held on July 7-8, 2025, 13 representatives from 5 COOMET member countries (Belarus, Kyrgyzstan, Russia, Tajikistan, Uzbekistan) took part in the work (VNIIM, St. Petersburg, Russia)





Requirements for Review, Approval, Monitoring

- **The NMI/DI annually no later than March 15** sends to the Secretariat of TC 3.1 an annual report on the status of the QMS in accordance with the Guidelines for compiling the annual report. In case of making changes to the QMS, the NMI/DI also sends a notification on making changes.
- The Secretariat of TC 3.1 sends **the annual report of the NMI/DI to two members of TC 3.1** for evaluation. The TC 3.1 members review them for two weeks and send their opinion to the TC 3.1 Secretariat and NMI/DI. The Secretariat of TC 3.1 monitors the annual reports of the COOMET NMIs/DIs.
- COOMET make their guidance documents on quality management system review openly available on their websites (<https://www.coomet.info>).



COOMET publications for Quality Forum

	COOMET Recommendation	COOMET R/AQ/13:2026 Number of pages: 7 Version 28.01.2026
	Rules and Procedure for the evaluation of the quality management systems of National metrology institutes/Designated institutes	
	Document of COOMET Quality Forum Document code: QSF-doc_003e	
Approved at the 29th meeting of the COOMET Committee (Dresden, Germany, 3-4 April 2019). Revised and supplemented following the results of an electronic vote of the COOMET Committee (online, 14.12.2025 - 28.01.2026)		

	COOMET Recommendation	COOMET R/AQ/9:2019 Number of pages: 4 Version: 28.03.2019
	Recommendations on the evaluation of quality management systems of National metrology institutes/Designated institutes	
	Document of COOMET Quality Forum Document code: QSF-doc_002e	
Updated and agreed at the 26th meeting of the Technical Committee of the COOMET Quality Forum (Chisinau, Moldova, 27.03.2019) Approved at the 29th meeting of the COOMET Committee (Dresden, Germany, 3-4.04.2019)		

List of Annexes

- Annex A** Recommendations on giving an oral presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/Designated institutes (NMI/Dis) (document code QSF-doc_00e_003e_anxA)
- Annex B** Recommendations on preparing a written presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/Designated institutes (NMI/Dis) (document code QSF-doc_002e_003e_anxB)
- Annex 1** Application for a peer review of the NMI/DI quality management system (document code QSF-doc_003e_anx1)
- Annex 2** Schedule of the realization of peer reviews in the COOMET NMI/Dis (form) (document code QSF-doc_003e_anx2)
- Annex 3** Recommendations for on-site visits by peers and selection criteria for on-site visit peer reviewers (document CIPM 2007-25, document code QSF-doc_003e_anx3)
- Annex 4** Plan for a peer review of the NMI/DI quality management systems (document code QSF-doc_003e_anx4)
- Annex 5** Nonconformance protocols (forms) (document code QSF-doc_003e_anx5)
- Annex 6** Reports of a technical expert and auditor for the peer review of the NMI/DI QMS (form) (document code QSF-doc_003e_anx6)
- Annex 7** General report on the peer review of the NMI/DI QMS (form) (document code QSF-doc_003e_anx7)
- Annex 8** Action plan to remove nonconformities (form) (document code QSF-doc_003e_anx8)
- Annex 9** COOMET Confirmation of recognition of the QMS (form) (document code QSF-doc_003e_anx9)
- Annex 10** Annual report on the NMI/DI QMS (form) (document code QSF-doc_003e_anx10)
- Annex 11** Recommendations for the preparation of an annual report on the NMI/DI QMS (document code QSF-doc_003e_anx11)
- Annex 12** Monitoring of annual reports of COOMET NMI/Dis (form) (document code QSF-doc_003e_anx12)

6. ANNEXES

- Annex 1**
Criteria for the recognition of the quality management systems in COOMET NMIs/Dis (document code QSF-doc_002e_anx1).
- Annex 2 (Annex A)**
Recommendations on giving an oral presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/Designated institutes (NMI/DI QMS) (document code QSF-doc_002e_003e_anxA).
- Annex 3 (Annex B)**
Recommendations on preparing a written presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/ Designated institutes (NMI/DI QMS) (document code QSF-doc_002e_003e_anxB).
- Annex 4**
Regulation for auditors on a peer review of the quality management systems of National metrology institutes/Designated institutes (document code QSF-doc_002e_anx4).
- Annex 5**
Form of electronic voting ballots on the recognition of a quality management system (document code QSF-doc_002e_anx5).

COOMET Quality Management System

ISO/IEC 17025

NMI	QMS Status	Conformation of recognition	Date	Valid date	Metrological areas
VNIIM (Russia)	recognized	QSF-R91	04.03.2026	04.03.2031	AUV, EM, L, RI, T, M, QM
VNIOFI (Russia)	recognized	QSF-R95	04.03.2026	04.03.2031	PR, QM
VNIIFTRI (Russia)	recognized	QSF-R93	04.03.2026	04.03.2031	AUV, EM, RI, T, M, QM, TF
RCAM-Rostest (Russia)	recognized	QSF-R97	04.03.2026	04.03.2031	L, EM
BelGIM (Belarus)	recognized	QSF-R82	30.09.2021	30.09.2026	AUV, EM, RI, T, M, QM, TF, L, PR
INIMET (Cuba)	unrecognized	QSF-R67	20.11.2020	04.10.2023	M, L, QM, T, TF
CENTIS (Cuba)	unrecognized	QSF-R66	20.11.2020	04.10.2023	RI
CPHR (Cuba)	unrecognized	QSF-R65	20.11.2020	04.10.2023	RI
KazStandard (Kazakhstan)	recognized	QSF-R98	04.03.2026	17.11.2026	EM, M, L, PR, QM, T, TF
AzMI (Azerbaijan)	recognized	QSF-R88	10.03.2023	10.03.2028	T, RI, EM, M
UzNIM (Uzbekistan)	recognized	QSF-R90	14.03.2025	10.03.2028	AUV, EM, L, M, PR, RI, T, TF

ISO 17034

NMI	QMS Status	Conformation of recognition	Date	Valid date	Metrological areas
VNIIM (Russia)	recognized	QSF-R92	04.03.2026	04.03.2031	Gases, Organic solutions, Inorganic solutions, Electrolytic conductivity, High purity chemicals, Advanced materials, Food products, Coatings, Films, and Nanomaterials
VNIOFI (Russia)	recognized	QSF-R96	04.03.2026	04.03.2031	Inorganic solutions, Metal and metal alloys, Biological fluids and materials,
BelGIM (Belarus)	recognized	QSF-R83	30.09.2021	30.09.2026	Gases, pH, Electrolytic conductivity, Radionuclides
KazStandard (Kazakhstan)	recognized	QSF-R87	09.12.2022	09.12.2027	Gases, pH
VNIIFTRI (Russia)	recognized	QSF-R94	04.03.2026	04.03.2031	Inorganic solutions, pH, Electrolytic conductivity, Radionuclides

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Thank you

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