Fact sheet of the interlaboratory comparison:

Mass calibration - 2020

Context and objectives:

Building on the success of the campaign in 2018 and 2019, CT2M (Mediterranean Technological Center of Metrology, in France) is repeating the organization of a European interlaboratory comparison in mass calibration in 2020. If you are a calibration laboratory or a test laboratory performing its internal calibration, this inter-laboratory comparison is organized for you!

The aims of this proficiency testing are to:

- ✓ Determine your performance by positioning yourself in relation to others,
- ✓ Ensure the quality of your calibration results,
- ✓ Meet the normative and accreditation requirements,
- ✓ Validate your calibration method.

CT2M guarantees:

- ✓ Confidentiality of results, respect for anonymity,
- ✓ Organization and treatment of results according to the recommendations of applicable standards (ISO 17043, ISO 13528),
- ✓ Advice and support of participating laboratories.

Proficiency testing item:

Masses of nominal values (OIML class: E2):

1mg, 10mg, 100mg, 1g, 10g, 100g, 1kg and 10kg

Testing/Calibration Method(s):

The preferred calibration method is the reference method of comparing the mass to calibrate with a standard mass of equivalent nominal value, using a weighting machine. Each laboratory uses its procedure and then is free to choose the number of repetitions and the number of calibration cycles.

It is not mandatory to calibrate all masses provided for this proficiency testing.

A detailed protocol will be provided to each participant at the beginning of the campaign.

Organization of the proficiency testing:

Each laboratory will have to calibrate the masses within 2 weeks. The masses will go from one laboratory to another.

CT2M will send a file to participants at the beginning of the campaign. The participants will have to transcribe their results in that file. For each calibration point, the participants will have to indicate at least:

- ✓ Conventional mass
- ✓ Expanded uncertainty of the conventional mass

It is not mandatory to calculate the **calibration uncertainty** to participate in this comparison (for example for non-accredited laboratories).

Accredited laboratories will give their **uncertainty according to their CMC.**

Final report:

At the end of the circuit, the results will be statistically treated, and a final report will be sent to the participants. It will contain the results of all the participants (with codification system in respect for anonymity), the study of normality and outliers, the performance scores of the participants and all the other elements useful for the interpretation of the results.

Intermediate reports may be provided as the circuit progresses if the number of participants would result in a circuit duration longer than 6 months.

Important dates:

Key steps	Estimated deadline
End of registration	April, the 8th 2020
Emailing of the detail procedure and the planning of the circuit	April 2020
Launching of the circuit	End of April 2020
Publication of the final report	Dependant on the number of participants

Participation fees: 475 € net total

This price includes the weights loan, the transport to your laboratory, the results file to complete, the final report containing the treatment of the results and any intermediate reports according to the number of participants.

The transport costs to the next laboratory are the responsibility of the participants, the choice of the carrier remaining free.

However, as mentioned in the registration form, the transport of proficiency test item outside the European Union must be organized and paid for by the participating laboratory.

Registration and contact:

If you are interested in this proficiency testing, we invite you to complete the registration form and send it by email at eil@ct2m.fr or by fax at +33 (0)4.90.50.89.63.

For further information please contact us by:

- ✓ Email: eil@ct2m.fr
- ✓ Phone: +33 (0)4 90 50 90 14