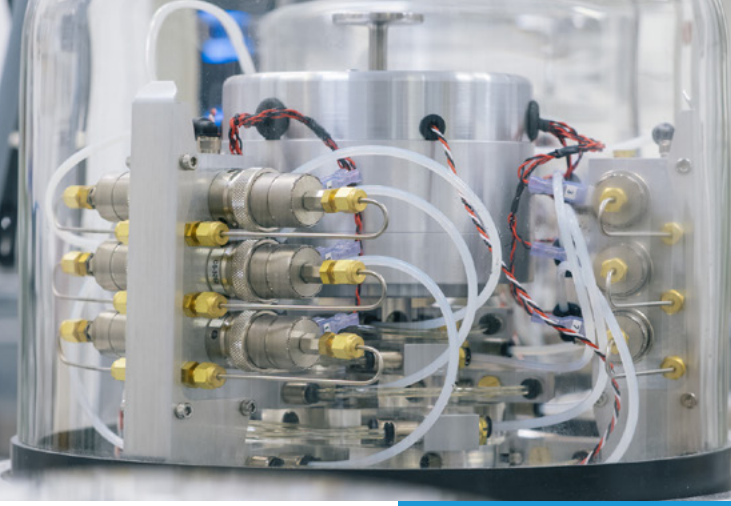




National
Metrology
Institute



Proficiency Test

Calibration of a balance

Many laboratories participate in Proficiency Tests (PT schemes) or interlaboratory comparisons (ILC). Measurement results from multiple laboratories are anonymously compared with each other to identify any deviations. The results will give you valuable insights into your laboratory's performance, ensure and even increase your quality, can be used as a reliable tool for quality and risk management and will meet the requirements of various accreditations and ISO/IEC 17025:2017.

When you participate in one of our PTs, we will be performed with the highest care:

- We will make an artifact available
- We will formulate a test protocol
- We will make a report
- We guarantee independence and anonymity
- We make our laboratory available to perform your measurement
- If desired, we can assist with determining follow-up steps

Selection of participants:

Available for laboratories with ISO/IEC 17025:2017 accreditation that have relevant CMC's or want to claim or improve their ISO/IEC 17025:2017 accreditation.

Registration:

Please go to our website www.vsl.nl/en/services/proficiency-testing and fill in the registration form.

Fee:

€ 2,900.00 (excl. VAT)

Terms of payment:

Payment in advance. Invoice will be sent 1 month before the start of the PT. 30 Days payment terms after invoice date

Schedule:

The PT round is scheduled to begin 1 October 2023. Registration is possible until 1 September, 2023.

Minimum number of participants:

5 participants

VSL reserves the right to cancel the PT in case the number of participants is smaller than anticipated. In that case VSL will contact you to find a suitable solution.

About VSL

VSL, the National Metrology Institute for The Netherlands, is a globally accredited PT provider (ISO/IEC 17043:2010, our scope reg. nr. R006).

Our independent comparisons covers a broad range of areas including pressure, mass, viscosity, temperature, electricity, length, chemical analysis, humidity and gas flow. Customers also ask VSL for advice and implementation of custom comparisons.

We encompass all calibration capabilities across various technological fields listed in our extensive ISO/IEC 17025:2017 accredited calibration scope (reg.nr. K999) and our ISO 17034:2016 scope (reg. nr. P002).

For more information on VSL and our offerings, please visit our website at <https://www.vsl.nl/en/services/interlaboratory-comparisons/>. Should you have any questions or wish to join our PTs, feel free to contact us.



Reference laboratory:

VSL, the National Metrology Institute for The Netherlands

Measurements protocol:

- VSL will provide the protocol with the start of the PT.
- The calibrations will be performed at VSL by appointment.
- The participants have one working day to perform the calibration at VSL.
- The mass sets can be delivered 1 or 2 days before the calibration for acclimatization.

Evaluation:

Evaluation will be done by normalised error, defined as

$$E_n = \frac{x_i - X_{ICRV}}{\sqrt{U_{iab,i}^2 + U_{ICRV}^2}}$$

Confidentiality statement:

VSL keeps all data regarding the performance of individual participants, or groups of participants, strictly confidential. Data is accordingly protected and stored in areas on networks with restricted access. The relationship between results and the laboratories that submitted them will never be disclosed. Only the laboratory is granted access to its performance through the assigned code number.

Deliverables:

VSL will deliver an anonymous test report of the comparison.

Information about the artifact to be used:

Mettler Toledo AB54 - 0.01 g - 51 g
Ohaus ANALYTICAL Plus - 0.01 g - 110 g

VSL

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Calibration points:

Mettler Toledo AB54	Ohaus ANALYTICAL Plus	Expected uncertainty ($k=2$)
0 g	0 g	
0.5 g	2 g	
1 g	5 g	
2 g	10 g	
3 g	20 g	
5 g	40 g	
10 g	50 g	
15 g	70 g	
20 g	90 g	
30 g	100 g	
40 g	110 g	
50 g		