



# \* QuoData Web-Seminar

## Evaluation of Interlaboratory Studies and Method validation with PROLab

# '21

ISO 13528,  
ISO/IEC 17043  
& ISO 5725

19 – 21 October 2021

### Your Benefits at a Glance

- Get a practical understanding of the statistical basis behind method validation according to ISO 5725-2
- Understand the updated principles of proficiency testing according to ISO 13528 and ISO/IEC 17043
- Learn to visualize relationships between data in intuitive ways
- Get an introduction to sophisticated result interpretation methods to get the most out of your data

### QuoData Workshops: Expanding Your QA Knowledge

QuoData's regular workshops disseminate the know-how acquired through more than 20 years experience in analytical quality assurance. The workshop for the Evaluation of interlaboratory studies gives participants the opportunity to get a clear understanding of the standards behind proficiency testing (PT) and method validation (MV).

Throughout the workshop, participants are given the opportunity to get hands-on experience applying the methods discussed in the presentations by means of practical examples based on real-life data.

You can feel confident in our instructors who have many years of experience lecturing and are also recognized members of national and international committees for quality assurance standards.

## Program Main Topics

### Day 1, 19 October 2021 Introduction to the planning and evaluation of interlaboratory studies

- Method validation according to ISO 5725-2: Trueness, precision, Horwitz standard deviation, outlier detection and elimination, KDE, normal distribution test
- Proficiency testing according to ISO 13528: Robust statistics, laboratory measurement uncertainty, uncertainty of the assigned value, utilization of different scores
- Case studies + practical evaluation with PROLab

### Day 2, 20 October 2021 Homogeneity, stability, sample characterisation, cross-sample evaluation

- Homogeneity and stability according to ISO 13528: Standard design, random selection of test items and testing order, testing for trends, Cochran test, sufficient and significant heterogeneity
- Youdenplot and laboratory assessment across samples: Applications and interpretation of Youdenplot (blind samples), Lischerplot, RSZ, RLP
- Case studies + practical evaluation with PROLab

### Day 3, 21 October 2021 Measurement uncertainty, MU-Hampel and method-specific evaluation

- MU-Hampel: Measurement uncertainty, Naji-plot, Hampel estimator, consensus values and KDE on the basis laboratory-specific measurement uncertainties, application in the case of few laboratories
- Method-specific evaluation of interlaboratory study data: Graphical possibilities, t-test and equivalence test
- Case studies + practical evaluation with PROLab

Registration is open until 5 October 2021

Working with PROLab™

Language\_ English

Dates\_ 19 – 21 October 2020

**Duration\_** The Web-Seminar takes place over three consecutive days. The lecture content comprises approximately 3-4 hours per day.

**Registration\_** You can register, using our online form: <https://quodata.de/registration.php>  
Feel free to register for all three days or pick the days which are most interesting to you.

**Or register directly via Eric Pospischil:**  
[eric.pospischil@quodata.de](mailto:eric.pospischil@quodata.de)  
Tel.: +49 - (0)3 51 - 40 28 86 7 0

### Participation Fee

The participation fee is € 300 per day and participation (plus VAT). The total price for the Web-Seminar is € 900 per participant (plus VAT). Each day can be booked separately. If the event is canceled by QuoData GmbH the fees will be refunded in full.

Further claims against QuoData are excluded. QuoData reserves the right to cancel or reschedule the Web-Seminar due to insufficient demand. By submitting our online form, you are making a binding registration for participation. Fees associated with participation will be charged accordingly

### Web-Seminar documents

A shortened version of the presentation slides will be sent to you before the start of the Web-Seminar. You will receive a certificate of participation after completing the Web-Seminar.

The cost of the documents, and the certificate of attendance are included in the participation fee.

### Technical Requirements

To participate you need a PC or laptop with a secure internet connection, a headset with a microphone and a webcam.

You will receive the link to your booked Web-Seminar, including instructions on dialing in, by email a few days before the start of the Web-Seminar.