



ESTIMATING MEASUREMENT UNCERTAINTY FOR BIOLOGISTS

This one-day course explains the general principles of estimating measurement uncertainty for routine quantitative measurements performed in the various fields of biological testing, including medical, veterinary, forensic, serology and microbiology. A pragmatic, top-down approach is presented using the end results from the measurement process. Interactive workshops with case studies based on real analytical problems are used to reinforce these principles.

Course Objectives

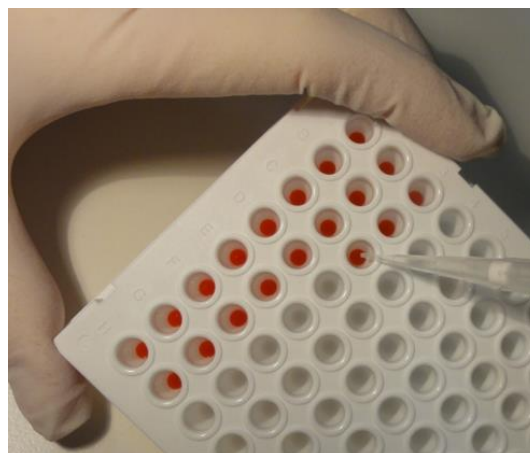
The workshop provides participants with the knowledge and skills to:

- understand the principles involved in measurement uncertainty and traceability
- apply uncertainty concepts when developing and conducting routine analysis
- make estimates of measurement uncertainty that are compliant with ISO/IEC 17025 and ISO 15189

Course Outline

The topics covered include:

- uncertainty definitions and concepts
- sources of uncertainty in calibrants
- uncertainty from the measurement process
- combining uncertainties
- calculating and reporting expanded uncertainties
- worked examples



Past attendees have said...

"This course gave me the confidence to prepare the measurement uncertainty calculations for our lab."

"I can now formalise the approach to our analysis and also provide up-to-date information to assist in meeting NATA requirements."

Course Details

Dates / Venue

Available dates and venues can be found on our [website](#).

Fee / Inclusions

Check the NMI [website](#) for the current pricing which includes lunch, refreshments and learning materials.

Time

The course will start at 9 am and will finish by 5 pm.

Related Courses

Course name	Duration	Dates
Analytical Method Validation	1-day	See NMI website
Estimating Measurement Uncertainty for Chemists	1-day	See NMI website

In-house Options

Available on a fee-for-service basis subject to trainer availability. This option can be advantageous where an organisation has a number of staff to be trained and prefer to have the training carried out at their premises. Consultancies are useful where an organisation has specific measurement issues that need to be addressed, or where they are seeking training in advanced measurement techniques. More information is available on our [website](#).

Contact Us

Phone (02) 8467 3796, or send an email to training@measurement.gov.au.

For more information about NMI and our services, visit our website at <https://www.industry.gov.au/client-services/training-and-assessment>