



# ESTIMATING MEASUREMENT UNCERTAINTY FOR CHEMISTS

This one-day course introduces the concept of measurement uncertainty and explains the processes involved in evaluating measurement uncertainty in chemical methods.

## 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 ISO/IEC 17025 compliant estimates of measurement uncertainty

## Course Outline

The topics covered include:

- sources of uncertainty
- calculating combined uncertainties
- top-down approaches
- reporting results to the client
- traceability
- spreadsheet tools for uncertainty evaluation
- uncertainty associated with bias
- guided workshops



### **Past attendees have said...**

*"As Lab Manager, I really think it was money well spent and will recommend the courses to everyone."*

*"The best thing about this course is the case studies and workshops"*

## **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**

<b>Course name</b>	<b>Duration</b>	<b>Dates</b>
Analytical Method Validation	1-day	<a href="#">See NMI website</a>
Estimating Measurement Uncertainty for Biologists	1-day	<a href="#">See NMI website</a>

## **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](mailto: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>