



INTRODUCTION TO ESTIMATING MEASUREMENT UNCERTAINTY

This one-day introductory course will give you the grounding needed to develop an uncertainty budget. Suitable for staff from calibration laboratories and those testing laboratories carrying out physical measurements¹, the course will give you a clear step-by-step approach to uncertainty estimation with practical examples.

Course Objectives

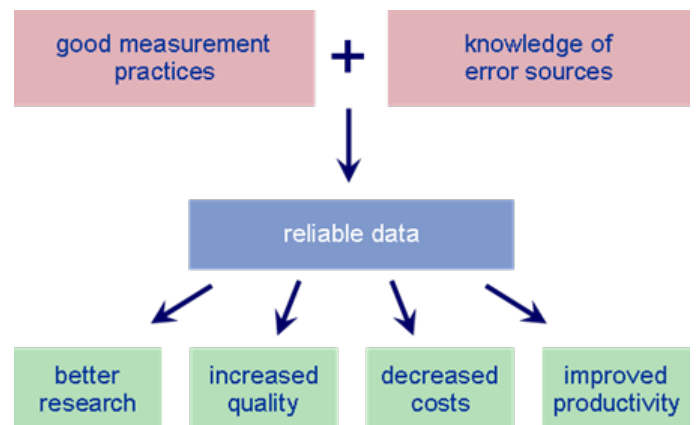
The workshop provides participants with the knowledge and skills to:

- understand the concepts involved in the estimation of measurement uncertainty
- estimate measurement uncertainty in a practical and pragmatic manner
- apply ISO's Guide to the Expression of Uncertainty in Measurement successfully in the workplace

Course Outline

The topics covered include:

- an overview of ISO's Guide to the Expression of Uncertainty in Measurement (GUM)
- modelling a measurement
- identifying uncertainty components
- basic statistical concepts
- uncertainty calculations
- sensitivity coefficients
- practical exercises
- useful spreadsheet functions



¹ Staff from chemical, biological or medical testing laboratories should attend the *Estimating Measurement Uncertainty for Chemists* or *Estimating Measurement Uncertainty for Biologist* instead of this course.

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 are on our [website](#). This course is scheduled twice each year at the following venues.

Venues

Ausindustry Brisbane, Level 1/100 Creek Street, Brisbane, QLD, 4000

Ausindustry Adelaide, Level 13/26 Franklin Street, Adelaide, SA 5000

NMI Lindfield (Sydney), 36 Bradfield Rd, Lindfield, NSW, 2070

NMI Port Melbourne , 1/153 Bertie Street, Port Melbourne, VIC, 3207

NMI Malaga, 456 Victoria Road, Malaga WA 6090

Fee / Inclusions

Check the NMI [website](#) for the current price which includes lunch, refreshments and a copy of Monograph 1: Uncertainty in Measurement: The ISO Guide.

Time

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

Related Courses

Course name	Duration	Dates
Estimating Measurement Uncertainty for Biologists	1-day	See NMI website
Estimating Measurement Uncertainty for Chemists	2-day	See NMI website
Statistics for Metrology	1-day	See NMI website
Physical Metrology Courses	1-3 day	See NMI website

In-house Options

Training may be carried out at your premises for groups of 6+ on a fee for service basis. Consultancies provide advice regarding specific measurement issues or training in advanced measurement techniques. More information is found 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 www.measurement.gov.au