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 measurements\(^1\), 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
NMI Adelaide, 22-24 Furness Avenue, Edwardstown SA 5039
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
NEW! Ausindustry Tasmania, Level 4, NAB House, 86 Collins Street, Hobart, TAS, 7000

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

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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 3786, 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

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