



LIQUID-IN-GLASS THERMOMETRY COURSE

This one-day course will provide calibration and quality control technicians with the skills required to calibrate liquid-in-glass thermometers in accordance with NATA and 17025 requirements.

The course covers essential knowledge of the theory and practice of temperature measurements using liquid-in-glass thermometers and application of the necessary precautions and corrections to achieve required measurement accuracy.

Course Objectives

The course provides participants with knowledge and skills to:

- use the appropriate calibration procedure and perform periodic in-house checks
- identify various sources of error that affect temperature measurements
- report measurement and calibration results in accordance with industry standards, including legal requirements for traceability

Course Outline

The topics covered include:

- the basic principles of measurement and metrological traceability
- the principles of operation and construction of liquid-in-glass thermometers
- different types of liquid-in-glass thermometers
- intrinsic problems: total versus partial immersion, temporary depression and secular change
- calibration of liquid-in-glass thermometers
- calibration workshop
- uncertainty of measurement estimation to ISO GUM¹
- reporting measurement results in accordance with NATA and ISO 17025 requirements
- use and general care of thermometers



Course Details

Dates / Venue

Available dates and locations can be found on our website.

Fee / Inclusions

Check the NMI website for the current pricing, which includes lunch and refreshments and a copy of the Monograph 9: Liquid-in-Glass Thermometry

Time

Face-to-face course will start at 9 am and will finish by 5 pm

Related courses

Course name	Duration
Temperature measurement	3-day
Humidity measurement	1-day
Testing temperature-controlled enclosures	1-day

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 the National Measurement Institute, visit our website.