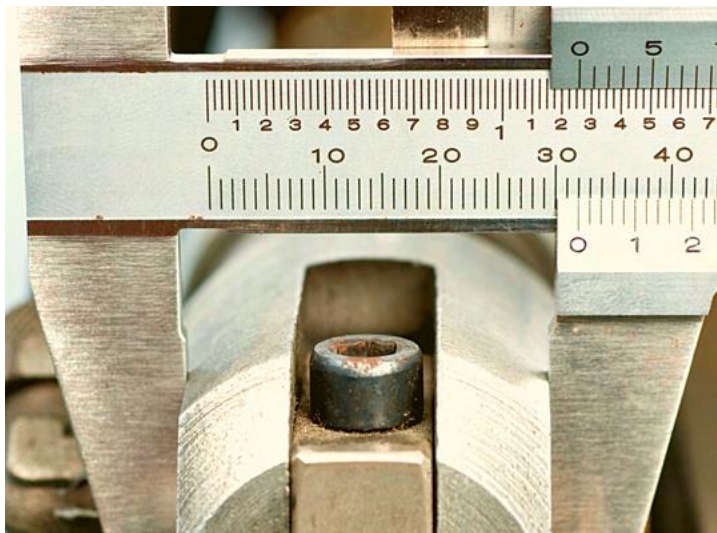




MAS MANAGEMENT SYSTEMS

THE  
MEASUREMENT  
TRAINING  
BUNDLE

[www.masmanagementsystems.com.au](http://www.masmanagementsystems.com.au)



# MEASUREMENT TRAINING BUNDLE

Our Measurement bundle will give you the ability to know what's important with your lab's measurement processes and defend your choices in an external audit.

The extended bundle includes measurement uncertainty for sampling.

The **Measurement Uncertainty made simple** course will :

- Provide refresher training on the principles of Measurement Uncertainty
- Give a detailed example of Measurement Uncertainty estimation and what it can tell you about your testing and calibration needs
- Work through an example from your lab ensuring the information is of **immediate benefit to you**
- Share what you've learned from the process
- Learn how to package up your work for a NATA assessment

In the **Measurement Traceability** course, participants will refresh their knowledge of traceability and develop appropriate strategies for ensuring the traceability of test results. In this course you will:

- Learn what measurement traceability really means in a practical sense and how it relates to your lab
- Work through your methods, pull them apart and determine just what's required – and what isn't
- Discuss the interface of the customer's needs and your traceability requirements
- Learn how to demonstrate metrological traceability during a NATA assessment

The **Measurement Uncertainty in sampling** course will :

- Show how to Measurement Uncertainty principles are applied to sampling
- Give a detailed example of Measurement Uncertainty estimation and what it can tell you about your testing and calibration needs
- Work through an example from your lab ensuring the information is of **immediate benefit to you**
- Share what you've learned from the process
- Learn how to package up your work for a NATA assessment

## COURSE BONUSES:

We have extensive experience, including as NATA auditors, providing you with **valuable insights into an external auditor's mindset**. So you'll get hints and tips on what to look for and how to answer questions from external auditors such as NATA.

Often there are questions after you've completed a training course. So we don't leave you high and dry once the day is over.

**We'll be in touch a couple of weeks after the course to make sure you're on track and answer any further questions.**

**TWO COURSES: \$953**  
**THREE COURSES: \$1,496**

**BUNDLE PRICE: \$748 PER PERSON**  
**BUNDLE PRICE: \$1,197 PER PERSON**

FOR MORE INFORMATION ABOUT THIS BUNDLE  
 PHONE MAREE ON 0411 540 709  
 OR EMAIL [INFO@MASMANAGEMENTSYSTEMS.COM.AU](mailto:INFO@MASMANAGEMENTSYSTEMS.COM.AU)



# MEASUREMENT UNCERTAINTY MADE SIMPLE

Many people approach Measurement Uncertainty (MU) with some trepidation. But we'll get you past that!

In this course, you'll use your knowledge of MU principles to determine the appropriate calibration requirements for equipment used in your laboratory.

## Course outline

We'll show you how to intelligently evaluate the effects of various sources of measurement uncertainty so that an appropriate calibration strategy can be determined. This can be submitted as part of the NATA assessment process to meet NATA's requirements on Metrological Traceability and Equipment assurance, in-house calibration and equipment verification.

The principles covered in this course can be extended to cover other sources of uncertainty and different analytical techniques.

Here's how the day will run:

- Refresher training on the principles of MU
- A detailed example of MU estimation and what it can tell you about your testing and calibration needs
- Work through an example **from your lab** ensuring the information is of immediate benefit to you
- Share what you've learned from the process
- Learn how to package up your work for a NATA assessment

**Why is our course different? Because we use a process from your facility to ensure what you learn is of immediate and practical benefit!**

**PLUS** you'll get hints and tips on what to look for and how to answer questions from external auditors such as NATA.

**BONUS:** Often there are questions after you've completed a training course. So we don't leave you high and dry once the day is over. We'll be in touch a couple of weeks after the course to make sure you're on track and answer any further questions.

All participants will receive a certificate of completion at the end of the course.

**\*\* COURSE COST: \$561 PER PERSON \*\***

**IN-HOUSE TRAINING:** As well as saving you time and money, in-house training ensures consistency of message across your business. **PLUS we train your staff using your processes, on your premises.** **Discounts apply** for group training so contact us for further information about this option.

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# MEASUREMENT UNCERTAINTY IN SAMPLING

Over the years, we've had feedback from labs about how difficult carrying out Measurement Uncertainty (MU) can be.

However, we believe MU is an extremely important tool for your lab and that you shouldn't be put off because it seems too hard.

## Course outline

In this practical one-day workshop, participants will use their knowledge of measurement uncertainty principles to determine the uncertainty associated with sampling. We'll show you how to intelligently use the data you currently have to develop your MU budget for sampling activities. This information can be used to show where improvements are needed to your organisation's sampling processes.

You'll work through real examples, learn how to calculate MU and use it to help make sensible, evidence-based decisions about sampling and laboratory processes, equipment and materials.

**NOTE:** Although our MU course isn't a pre-requisite, participants need a working knowledge of MU estimation before attending this course

In this course we will:

- Show how Measurement Uncertainty principles are applied to sampling
- Give a detailed example of MU estimation and what it can tell you about your testing and calibration needs
- Work through an example **from your lab** ensuring the information is of immediate benefit to you
- Share what you've learned from the process
- Demonstrate how to package up your work for a NATA assessment

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# MEASUREMENT TRACEABILITY

*Learn the simple steps to measurement traceability*

This half-day workshop is aimed at staff who make decisions about calibration, use of equipment and reference materials.

It's also very useful for anyone involved in quality assurance activities.



## Course outline

Participants will refresh their knowledge of traceability and develop appropriate strategies for ensuring the traceability of test results. The aim is for laboratory staff to intelligently evaluate the traceability of calibrations and reference materials and where needed, respond to the requirements of NATA's [Metrological Traceability Policy](#).

Your lab may not need traceability to SI units – in fact, depending on what you're testing, it may not be possible. However, you still need to demonstrate measurement traceability in your lab.

In this one day interactive workshop you will:

- Learn what measurement traceability really means in a practical sense and how it relates to your lab
- Work through your methods, pull them apart and determine just what's required – and what isn't
- Discuss the interface of the customer's needs and your traceability requirements
- Learn how to demonstrate metrological traceability during a NATA assessment

**Why is our course different? Because we work through a method from your lab to ensure what you learn is of immediate and practical benefit!**

**PLUS** you'll get hints and tips on what to look for and how to answer questions from external auditors such as NATA.

We have extensive experience, including as NATA auditors, providing you with valuable insights into an external auditor's mindset. Plus, we've seen first hand what works (and what doesn't) across businesses just like yours.

**BONUS:** Often there are questions after you've completed a training course. So we don't leave you high and dry once the day is over. We'll be in touch a couple of weeks after the course to make sure you're on track and answer any further questions.

All participants will receive a certificate of completion at the end of the course.

**\*\* COURSE COST: \$374 PER PERSON \*\***

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