

Clinical thermometers and how to make accurate body temperature measurement

(A Measurement Assurance Program Course)

08 July 2019, 9:00 am – 5:00 pm, NMC

Introduction

This course aims to introduce basic metrological concepts and practical knowledge in the use of clinical thermometers for body temperature measurements with minimum error. Participants will also learn how to calculate measurement uncertainty and how to calibrate clinical thermometers.

Course Leader

Dr Wang Li is a principal metrologist in NMC. She has been involved in many activities related to radiation thermometry over 20 years. She has provided trainings in radiation thermometry both in Singapore and overseas.

Dr Ye Shaochun is a Scientist in the Temperature & Humidity Laboratory in National Metrology Center. He received his Ph.D. from NUS in 2009.

Course Contents

- International Temperature Scale
- Laboratory performance requirements for clinical thermometers.
- Basic Principles of Clinical Resistance Thermometry and Ear Thermometers.
- Calibration of Clinical Resistance Thermometry and Ear Thermometers.
- Calculation of measurement uncertainty.
- Laboratory practice on calibration

Measurement Assurance Program (MAP)

National Metrology Centre (NMC) launched MAP in December 2012 with the aim to enhance the measurement capability and confidence of calibration and testing laboratories. It provides:

- *Proficiency Tests (PT)* to verify laboratory's competency and measurement accuracy,
- *Measurement Assurance Seminars*, and
- *Training and consultancy* to upgrade the industry's skills in measurements.

For more details on MAP and upcoming events, visit:

www.a-star.edu.sg/nmc/map.htm

Contact Us



National Metrology Centre
1 Science Park Drive, Singapore
118221

Tel: +65 6279 1900

Fax: +65 6279 1992

Email: metrology@nmc.a-star.edu.sg

Web: www.a-star.edu.sg/nmc

 [facebook.com/nmcsingapore](https://www.facebook.com/nmcsingapore)
 twitter.com/nmcsingapore

Course Registration

Fee **SGD390\$+GST**

Clinical thermometers and how to make accurate body temperature measurement, 08 July 2019

Please fax filled-in form to 62791992, or e-mail to shirley_tng@nmc.a-star.edu.sg to register.

Name of Participant	^{Ms} ^{Mr} ^{Dr}	Designation	Business Telephone
Company	E-mail		
Address			
Signature/ Co Stamp	Date		<input type="checkbox"/> Check if vegetarian

Acceptance of registration is based on first-come-first-served basis. Payment is to be made by crossed cheque to "SCEI-NMC", by credit card or by NETS. 50% is refundable for withdrawals in writing at least five days before the commencement of the course. NMC reserves the right to cancel or postpone the course. In the event of cancellation, registration fees will be fully refunded.

For Whom

- Calibration engineers
- Test engineers
- Thermometer suppliers and end users
- Quality assurance and quality control personnel