



2-day technical program on

# GUM - GUIDE TO EXPRESSION OF UNCERTAINTY IN MEASUREMENT

DATE

21 - 22 April 2010

VENUE

Grand Millennium Hotel  
Kuala Lumpur

TIME

9am-5pm

*Basic statistical background &  
scientific calculator required*

This two-day program will provide the overview, interpretation and implementation of measurement uncertainty studies of a measurement instrument. Measurement uncertainty is needed when we do measuring equipment calibration to ascertain the appropriateness and suitability of a measurement instrument.

In order to make a valid and concrete conclusion to fulfill today's demanding technical and ISO requirements, correct measurement data is a crucial factor to ensure appropriate and proper results.

Coupled with the application of statistics, components of uncertainty can be established and appropriate corrective actions can be carried out to improve the measurement instrument. This is particularly important for calibration laboratories where standard readings are being determined.

This program focuses on the **understanding of Measurement Uncertainty as needed by today's industrial standard and quality system**. We need to apply the GUM (Guide to the Expression of Uncertainty in Measurements) guide in studying, analyzing, determine and reporting our gauges/measurement instrument's uncertainty. This will help us to decide how to **invest effectively** in selecting the most appropriate measurement instrument for our company to **fulfill customer requirements**.

#### **THIS PROGRAM WILL BE OF VALUE TO**

- Managers and Executives in engineering, experimental science, laboratories, pharmacology, research and all who need to make sound decisions based on data and facts
- Measurement equipment calibration engineers and managers
- Lab or equipment personnel involved in calibration
- Personnel in charge of ISO9001: 2008 or TS16949:2009
- Engineers involved in measurement and tool room
- Quality, production and measurement groups
- Those who are involved in works that require understanding in measurement accuracy and precision

#### **METHODOLOGY**

This program is structured with many references to real life examples. It focuses on **application of knowledge** and **practical exercises**. It is also supported by discussions at the conclusion of each session to help participants grasp the complete concept. Templates used for calibration developed by the trainer over the years of services will be shared to facilitate measurement uncertainty computation.

visit us at [www.cmtevents.com](http://www.cmtevents.com)

Register Me     Send brochure     Send sponsorship details

Name \_\_\_\_\_ Position \_\_\_\_\_

Company \_\_\_\_\_

Email \_\_\_\_\_

Address \_\_\_\_\_

Tel \_\_\_\_\_ Fax \_\_\_\_\_

#### **TO REGISTER**

Online: [www.cmtevents.com](http://www.cmtevents.com)

Email: [adminkl@cmtsp.com.sg](mailto:adminkl@cmtsp.com.sg)

Fax: (603) 2162 6393

Tel: (603) 2162 7322

Post to: Lot 7.03, 7th Floor, North Block,  
The Ampwalk, 218 Jalan Ampang  
50450 Kuala Lumpur