Global Horizon
TRAINING CENTER

Training Course:
Uncertainty of measurement ISO/IEC GUIDE 98-3:2008

5 - 9 October 2026
Kuala Lumpur (Malaysia)

Training Course:
Uncertainty of measurement ISO/IEC GUIDE 98-3:2008

Training Course code: SC234752 From: 5 - 9 October 2026 Venue: Kuala Lumpur (Malaysia) - Training Course Fees: 6300 Euro

Introduction

This training course is designed to be as a guide establishes general rules for evaluating and expressing uncertainty in measurement that are intended to be applicable to a broad spectrum of measurements. The basis of the Guide is Recommendation 1 CI-1981 of the Comité International des Poids et Mesures CIPM and Recommendation INC-1 1980 of the Working Group on the Statement of Uncertainties. The Working Group was convened by the Bureau International des Poids et Mesures BIPM in response to a request of the CIPM. The CIPM Recommendation is the only recommendation concerning the expression of uncertainty in measurement adopted by an intergovernmental organization.

Course Objectives

- Basics of the uncertainty of measurement theory
- Methods for calculating the extension interval
- Promotion of Monte Carlo decomposition
- Procedure for estimating the uncertainty of measurement
- Examples of evaluation of uncertainty of measurement
- Discussion of the interpretation of Supplements 1 and 2 to the GUM

Target Audience

- Metrology and Measurement Professionals involved in calibration, testing, and uncertainty analysis.
- Quality Assurance and Quality Control Specialists responsible for ensuring measurement reliability and compliance.
- Laboratory Technicians and Scientists working in industrial, analytical, or research laboratories.
- Engineers Mechanical, Electrical, Chemical, Industrial involved in measurement systems and technical evaluation.
- Calibration and Instrumentation Specialists responsible for measurement accuracy and traceability.
- Technical Auditors and Inspectors assessing compliance with international measurement standards.
- Professionals in manufacturing, aerospace, pharmaceuticals, and energy sectors where precise measurement is critical.
- Researchers and postgraduate students in metrology, physics, and engineering disciplines seeking deeper understanding of measurement uncertainty.

Course outlines

Day 1

Introduction

- Scope
- Definitions
- General metrological terms
- The term "uncertainty"
- Terms specific to this Guide

Day 2

Basic concepts

- Measurement
- Errors, effects, and corrections
- Uncertainty
- Practical considerations

Day 3

Evaluating standard uncertainty

- Modelling the measurement
- Type A evaluation of standard uncertainty
- Type B evaluation of standard uncertainty
- Graphical illustration of evaluating standard uncertainty

Day 4

Determining combined standard uncertainty

- Uncorrelated input quantities
- Correlated input quantities

Determining expanded uncertainty

- Introduction

- Expanded uncertainty
- Choosing a coverage factor

Day 5

Reporting uncertainty

- General guidance
- Specific guidance
- Examples and class work
- Summary of procedure for evaluating and expressing uncertainty

Registration form on the Training Course: Uncertainty of measurement ISO/IEC GUIDE 98-3:2008

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.