



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

*23 - 27 December 2024*  
*Boston (USA)*

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

Training Course code: SC234752 From: 23 - 27 December 2024 Venue: Boston (USA) - Training Course Fees: 6820 € 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

### 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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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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