



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

9 - 13 December 2024
Manchester (UK)

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

Training Course code: SC234752 From: 9 - 13 December 2024 Venue: Manchester (UK) - Training Course Fees: 5775 € 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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