



METROLOGY in MOTION

2019 NCSL INTERNATIONAL
WORKSHOP & SYMPOSIUM
August 24 – 29, 2019
Huntington Convention Center, Cleveland, OH

Call for Papers
Abstract Deadline March 31, 2019
Manuscript Deadline May 20, 2019

NCSL INTERNATIONAL
Serving the World of Measurement

Course Catalog Number: Tme-2
Course Track: Metrology Engineers
Course Topic: Uncertainty
Course Career Level: Beginner

Saturday, August 24 | 8:00 AM - 5:00 PM | 1-Day (8 Hours)

Course Title: Measurement Uncertainty: Fundamental Applications

Instructor: Dilip Shah, E=mc3 Solutions

Abstract: The requirement for measurement uncertainty has been around for quite a few years when it comes to laboratory accreditation. Yet, there is a lot of uncertainty about evaluating uncertainty. This workshop provides the attendee with fundamental tools to evaluate measurement uncertainty. It simplifies the GUM approach, so it is easier to understand and implement. Tools and techniques are discussed using Microsoft Excel spreadsheet to simplify calculations while developing an uncertainty budget.

Learning Objectives:

1. Understand the measurement uncertainty budget development process.
2. Understand mathematics and statistics associated with measurement uncertainty.
3. Develop measurement uncertainty budgets to support the Scope of accreditation.

Instructor Curriculum Vitae (CV):

Dilip A. Shah has over 40 years of industry experience in metrology, electronics, instrumentation, measurement and computer applications of statistics in the Quality Assurance areas. He has been employed in various positions with Philips Electronics (UK), Kodak Ltd. (UK), Instruments Division of Monsanto Corporation, Flexsys America and Alpha Technologies. He is currently a Principal of E = mc3 Solutions, a consulting practice that provides training and consulting solutions in ISO/IEC 17025, ISO 9001, Measurement Uncertainty and computer applications.