



Course Catalog Number: Tpm-1
Course Track: Pressure Measurements
Course Topic: Uncertainty
Course Career Level: Beginner/Intermediate

Sunday, August 25 | 8:00 AM - 5:00 PM | 1-Day (8 Hours)

Course Title: Pressure Calibration and Expanded Uncertainty

Instructor: Michael Bair, Fluke Calibration

Abstract: This tutorial covers the basics of pressure calibration to the conclusion of performing an expanded uncertainty analysis for the points taken during the tutorial. Included is a review of the physics that have an influence on pressure calibrations, pressure modes, units of measurement, types of pressure measuring instruments, connecting hardware including safety precautions, best practices and expanded uncertainty.

Learning Objectives:

1. Pressure Calibration Process.
2. Safety.
3. Expanded uncertainty.

Instructor Curriculum Vitae (CV):

Mike has 40 years of experience in the calibration field. His first four years were with the US Navy on a nuclear submarine tender as a calibration technician. He was one of the first five students in the USA to obtain an AAS in Metrology from Butler County Community College. He completed a practicum for his degree at DH Instruments, Inc. in 1983 and was hired on permanently. In 1995 he was promoted to Corporate Metrologist with responsibilities of traceability and methods for DHI pressure and gas flow disciplines. In 1997 he acquired the Designated Quality Representative responsibilities overseeing a 10CFR50 APPX B and Z540.1 quality program and obtained accreditation to *ISO/IEC 17025* in 2001. He has been an instructor for DHI and Fluke trade schools since 1986 and the Advanced Piston Gauge Metrology class since 2001. He has presented multiple papers at NCSLI winning best paper awards in 1999, 2008 and 2011. He has hosted a pressure tutorial at NCSLI at 12 different conferences in a 15-year span. He is a member of the IMEKO TC-16 working group since 2009 and is the current Measure Journal Associate Editor for Pressure.