

January 23 – 24, 2017
The Florida Hotel & Conference Center | Orlando, Florida

TE-3 | Monday, January 23 | 8:00 AM - 12:00 PM | ½ Day AM

Course Title: Risk Based Thinking in Metrology

Instructor: Andy Oldershaw, National Research Council Canada (NRC)

Topic: Quality/Management

Technical Level:

Beginner – course content is designed for students with no previous experience

Intermediate – students must possess as a basic understanding of course concepts

Course Description:

Management system standards are a one size fits all solution, tailorable through statements such as to the extent necessary, as appropriate, sufficient to... Risk based thinking has been a growing trend spreading to all aspects of the economy and society for many years. It will become more prominent for laboratories with the adoption of the upcoming ISO/IEC 17025 revision.

This module will help those involved planning, managing, implementing and reviewing any aspect of laboratory management systems to apply risk based thinking to determine what these statements mean to their particular situation.

Tools and techniques to identify, analyse, respond to, monitor and review risks will be introduced. Participants will have the opportunity to put them into practice during class room exercises.

Intended audience:

Anyone with responsibilities for decision making, quality, measurement assurance, auditing or an interest in managing risks in the laboratory.

Learning objectives:

Participants will understand:

- Common sources of measurement related risks,
- Be able to apply qualitative and quantitative risk analysis techniques for measurement related risks,
- How to apply risk based decision making in a measurement environment and
- How to evaluate actions and maintain current knowledge of risks in a measurement system.
- Participants will be better prepared for the transition when ISO/IEC 17025:2017 is published.

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Instructor Biography:

Andy Oldershaw, Leader, Measurement System Engagement within Canada's NMI, the National Research Council. Andy manages NRC external engagements and outreach across all metrology areas, calibration and measurement capabilities and standards development. He has more than 20 years of experience in systems engineering, assurance and conformity assessment with organizations including the Standards Council of Canada, UK Ministry of Defense and Augusta Westland Helicopters. He led a NATO multinational team of experts to develop the multilateral agreement (and related processes and training) for the reciprocal exchange of risk based assurance.