Trm-2 | Tuesday, February 25 | 8:00 AM - 5:00 PM | 1-Day (8 hours)

**Course Title:** Risk Based Thinking in Metrology

**Instructor:** Andrew Oldershaw, National Research Council Canada

**Course Description:** 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 revision of ISO/IEC 17025. 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, analyze, 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**

1. Understand common sources of measurement related risks and be able to apply qualitative and quantitative risk analysis techniques for measurement related risks.
2. Understand how to apply risk based decision making in a measurement environment and understand how to evaluate actions and maintain current knowledge of risks in a measurement system.

**Instructor Biography:** Andy Oldershaw works for the National Research Council of Canada (NRC) in the Scientific Support for the National Measurement System Program as the leader of the Measurement Systems Engagement Sector. As part of the NRC Measurement Science and Standards portfolio, his sector focuses delivering coherent scientific advice to improve national decision-making for commerce, standards development, regulation, and trade agreements. Andy is an assessment team leader for the Calibration Laboratory Assessment Service (CLAS) at NRC. CLAS works in partnership with the Standards Council of Canada (SCC) to accredit calibration laboratories to support Canadian industrial and regulatory measurement requirements. Andy's technical background is in systems engineering and systems assurance. He started his career in the UK Royal Air Force, completing 12 years of service.