# Entry Level Measurement Requirements – a Guided Discussion

Practitioner Feedback

Bruce Snead and Members of the PAB

Tuesday Sept 20, 2016

10:15-10:45



#### Purpose

This session will seek input from participants on the essential knowledge and skills that training and exam/assessment tools should address for those who seek NRPP measurement certification.

This will help guide the revision of the requirements for training and assessment to reflect the status and needs of the industry and help NRPP achieve ANSI certification status.



#### I. Evaluate

- 01/01 Establish the purpose of the tests by interviewing the occupant or contact person in order to select tests, methods and conditions.
- 01/02 Interview the occupants to establish pretest conditions, to inform them of possible test requirements, and to obtain information about the house.
- 01/03 Inspect the house in order to determine if test requirements have been met and to confirm the initial selection of tests, methods and strategies.

- II. Perform Tests
- 02/01 Determine and note pretest and post-test conditions.
- Place, expose, and retrieve devices in accordance with measurement strategies in order to determine the concentration of radon and/or radon decay products during the exposure period.
- Verify test conditions and requirements (determine if tampering has occurred).

- III.Analyze Measurements
- 03/01 Process devices analyze and validate measurement data as required in order to obtain concentrations of radon and/or radon decay products during the measurement period. (Provide quality assurance through frequent calibrations, and use of duplicate and replicate tests).

- IV. Interpret Measurements
- 04/01 Determine the significance of the test results by reviewing the conditions under which they were obtained and by comparing them with published guidelines in order to formulate recommendations.

- V. Report Findings
- 05/01 Convey survey results, recommendations and published information on radon and radon health effects to clients in order to permit them to make informed decisions.
- 05/02 Provide advice on possible mitigation strategies, if requested by client.

- VI. Ethics
- 06/01 The radon measurement professional adheres to the highest of standards of business and ethical practice and respects the privacy rights of clients.

Types of tests Properties of radon Radon sources and entry routes Measurement protocols and guidelines Testing laws and regulations Conditions affecting test results Health effects and action levels Principles of building construction Client requirements Safety standards Factors necessary to make valid measurements QA/QC procedures & requirements Documentation requirements Basics of radiation physics Elementary statistics and applications Mitigation strategies and guidelines

Establish test purpose Establish pretest conditions

Inspection

Determine pretest & post test conditions

Analyze & validate measure-ment data

Determine significance

Convey results

Provide advice

Highest standards of ethical practice

#### Input - Standard

#### Input - Standard and Analytical

#### Input - Others?

#### **Contact Information**

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