Level 1 – Introduction to Airtightness Fundamentals

Level 1 is targeted at witnessing authorities, testing and commissioning companies, and consultants. Learn about the behavior of air within a building and the effects it will have on energy efficiency. Understand the different testing circumstances that are acceptable and get the understanding of which factors influence a test. Also, there is a section for witnessing authorities to help understand what to look for during an airtightness or blowerdoor test to be able to judge on the quality of a test.

Module includes:

- Why airtightness testing?
- Fundamentals of the blowerdoor
- Rules and regulations: global and local
- Ventilation system and relationship with airtightness
- Witnessing an airtightness test
- Pitfalls and tips for tests

Level 2 – Basic Airtightness Testing

Level 2 is targeted at testers. This course will teach technicians about door fan test equipment, including basic theory and operation, and give them the foundation to run a single fan airtightness test in accordance with ASTM, LEED, ISO, EN, ATTMA, (Estidama, Green Building regulations, IBC) etc. Technicians will become familiar with the use of the equipment as well as with Retrotec's FanTestic Pro software. Furthermore technicians will learn about the differences in test procedures of different standards.

Module includes:

- Conducting a total enclosure leakage test
- Preparation of the building
- Pressure gauge training
- Door fan equipment training
- Analyzing results with software
- Troubleshooting
- Leak location in failed enclosures
- Aerodynamics vs. blowerdoor

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Level 3 – Advanced Airtightness Testing and Evaluation

Level 3 is targeted at testers who are comfortable with performing a basic test and need to be able to do larger and more complex tests. Technicians will learn how to do a test with multiple fan systems. This course will cover more of the theory behind the test concepts and give the technicians a deeper understanding of what they are measuring and why. Also, more advanced tests on attached volumes and simultaneous testing will be covered in detail.

Module includes:

- Preparation of high rise buildings
- Multi-fan testing
- Simultaneous testing
- Conducting an automatic test
- Attached volume testing
- Ductwork
- Pitfalls and tips for large building testing

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