



# Work Identification

WI322

## Airborne Ultrasound – Level II

### Recommended for

Inspectors seeking to advance their knowledge in Airborne Ultrasound inspections. Supervisors, energy auditors, and service company personnel who perform PDM, energy audits, or leak detection for their clients. Service personnel who desire to demonstrate technical and inspection proficiency to their clients.

### Course objective

Students successfully completing this course will be familiar with the scope and limitations of Airborne/Structure Borne Ultrasonic Inspection. They will be able to set up and calibrate equipment, interpret and evaluate results with respect to applicable codes, standards, specifications, and organize and report inspection results.

### Course description

Course content consists of advanced theory, data collection, inspection techniques, and reporting.

This course fulfills training and testing requirements of Level II Certification. General, specific, and practical tests are given at the end of the course. Students are expected to pass with a composite score of 80% or higher.

Topics covered

- Physical principles of sound
- Frequency, velocity, wavelength of sound, reflection, and scattering of sound waves
- Equipment construction, characteristics, and signal presentations

- Testing techniques, scanning method, contact method, and tone method
- Sensitivity adjustment of equipment
- Types of indications found in leaks
- Electrical and mechanical troubleshooting
- Properties of leaks
- Testing techniques considering the conditions of the test specimen
- Performance testing according to testing instructions
- Test specifications
- Recording test results
- Documentation and interpretation of test results

### 2009 course schedule

July 20–24 Elmsford, NY

### 2009 tuition

Public classes \$1,495

5 days

*A written examination is included with this course and is conducted on the afternoon of the final day of class.*