



UE Systems Inc, Online Level I Airborne/Structure Borne Ultrasound Course v20.1

A comprehensive Level I course conducted online through online courses with tests, live online instruction from UE Systems' Training Specialists, Field Work, and a final exam for certification in Level I Airborne Structure Borne Ultrasound conducted to ISO and ASNT standards. Conducted through WebEx and Litmos websites.

Basic Course Description

Prework – Online Prework Modules(3 – 20 min ea.) and Equipment Orientation (20 min – 1 hr.). Books and Materials shipped 2-4 weeks in advance and read by students with review questions answered before Virtual Class begins.

Virtual Classroom Days

1. Day 1 Ultrasound Theory and Leaks

- a. Morning
 - i. Into Live Instruction
 - ii. Sound Theory and Equipment Online Courses
 - iii. Hands-On Practical
2. Lunch Break
 - a. Afternoon
 - i. Leak Online Courses
 - ii. Leak Live Instruction
 - iii. Review of Prework
 - iv. Hands on Field Assignments – Locating and Documenting Leaks

3. Day 2 Ultrasound Electrical and Steam

- a. Morning
 - i. Review of Field Assignments
 - ii. Electrical Live Instruction
 - iii. Online Courses
 - iv. Hands-On Assignments – Scanning and Recording Electrical Gear
4. Lunch Break
 - a. Afternoon
 - i. Review of Electrical Field Work
 - ii. Electrical Live Instruction
 - iii. Steam Online Instruction
 - iv. Steam Live Instruction
 - v. Review of Prework
 - vi. Hands on Field Assignments – Scanning Steam Traps and Recording Steam Traps



5. Day 3 Ultrasound Valves, Mechanical, Bearings

- a. Morning
 - i. Review of Steam Field Assignments
 - ii. Valve Live Instruction
 - iii. Valve Online Courses
 - iv. Hands-On Assignments – Scanning Valves and Recording
 - v. Review of Assignment and Intro Intro Mechanical Testing Live Instruction
 - vi. Mechanical Online Courses

6. Lunch Break

- a. Afternoon
 - i. Mechanical Online Courses
 - ii. Mechanical Live Instruction
 - iii. Review of Pework
 - iv. Hands on Field Assignments – Scanning Bearings/Storing/Recording Bearings

7. Day 4 Ultrasound, Lubrication, Full Ultrasonic Instrument Course and Course Review

- a. Morning
 - i. Review of Field Mechanical Assignments
 - ii. Lubrication Live Instruction
 - iii. Online Courses
 - iv. Lubrication Live Instruction

8. Lunch Break

- a. Afternoon
 - i. Online Ultrasonic Instrument Course
 - ii. Practical - Sensitivity Validations
 - iii. Live Question and Answer with Instructor
 - iv. Review of Entire Course Work

9. Final Exam (Day 5) – within 1 week of completion of online course

- a. Morning
 - i. 2-hour Final Exam – 100 Multiple Choice Questions - Paper Test
 - ii. Given by Designated Proxy Examiner
 - iii. 3-4 Weeks for Test Results and Certificate