



Partnering with SDT Ultrasound Solutions for your Ultrasound Training Needs

SDT Ultrasound Solutions has been supporting global industry for more than 50 years, helping organizations get more from their condition monitoring programs and reliability strategy. Our purpose-built solutions, training, and services empower our customers to reduce unplanned downtime, optimize maintenance schedules, and protect their mission-critical equipment.

SDT Ultrasound Solutions is much more than a vendor. We are your proactive partner; here to support your reliability journey with the tools to guarantee your success.



50 Years of Reliability Innovation

We've helped organizations rethink how they manage reliability, sustainability, and efficiency. We've led the way in developing ultrasound-based strategies and training that empower reliability on a global scale.

A Global Footprint that Lasts

From power plants in Brazil to shipping fleets in Singapore, we enable our customers to achieve their operational objectives through better asset reliability. We understand the challenges present across industries and borders.

10,000+ Professionals Certified

We've trained and certified more than 10,000 ultrasound and vibration specialists and continue to lead the way empowering reliability teams to make confident, data-driven decisions that reduce downtime, extend asset life, and promote operational safety.

Ultrasound's Value to your Reliability Program

Ultrasound condition monitoring continues to grow in popularity, and for good reason. Thanks to its versatility of applications, fast ROI potential, and ease of implementation ultrasound is a smart investment for reliability initiatives large, small, new and old.



Early Detection

When defects are found early, organizations avoid costly, unplanned failures. Ultrasound helps maintenance and reliability teams find defects as they begin to form, by noticing small changes that occur at high frequencies.

Versatility

Ultrasound is considered the most versatile condition monitoring technology, thanks to its ability monitor rotating machinery, optimize lubrication, detect electrical faults, test steam traps, and much more.

Return on Investment

No other condition monitoring technology delivers a faster ROI. Ultrasound leak surveys alone can uncover significant savings, creating quick wins that build momentum, secure buy-in, and instill confidence in the technology.

About this Course

SDT's ISO CAT I Ultrasound Certification Course is a comprehensive 32-hour training program that exceeds the standard defined by ISO 18436-8. Delivered over sixteen instructor-led modules, the course blends theoretical instruction, practical hands-on learning, and guided review sessions to prepare participants for the ISO-approved final examination, administered by a qualified proctor.

Each module explores the theory and discipline behind the science of ultrasound while providing ample time for practical exercises using ultrasound instruments. While SDT brand equipment is featured throughout, participants are encouraged to bring and apply their own ultrasound technology during the course.



What Participants Take Back to the Plant

Participants leave this course with more than a certificate. They return to their facility with the knowledge, confidence, and practical skills to:

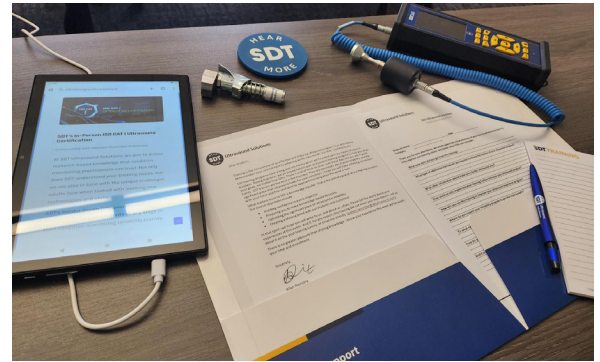
- Understand how ultrasound applies to predictive maintenance and condition monitoring
- Perform more consistent airborne and structure-borne ultrasound inspections
- Select the right sensor, technique, and approach for common plant applications
- Collect, store, and manage ultrasound inspection data in a repeatable way
- Analyze ultrasound readings using trending, time signal analysis, and statistical decibel alarms
- Find compressed air and process gas leaks that contribute to energy waste
- Make better lubrication decisions and reduce the risk of over- or under-greasing
- Detect early signs of mechanical, electrical, and fluid system defects
- Evaluate equipment condition and assign severity priorities based on inspection results
- Communicate findings clearly through reports and corrective recommendations
- Support the implementation and long-term success of an ultrasound program



Our Instructors

We choose our instructors after long careers in maintenance, reliability, and condition monitoring program implementation. We strive to place trainers in front of you who are comfortable in any teaching environment. From presenting to large audiences at technical conferences around the world to working directly in industrial environments where their hands-on experience shines.

Participants receive course materials, practical instruction with ultrasound instruments, exam preparation, and access to the certification exam.



Course Outline:

• Build a Foundation in Ultrasound

Understand what ultrasound is, how it behaves, and why it is one of the most versatile technologies in predictive maintenance.

• Understand instruments & sensors

Learn how ultrasound instruments, airborne + contact sensors, accessories, and measurement settings are used for inspection, detection, and data collection.

• Apply a Condition Monitoring Mindset

Develop an inspector's approach to asset reliability by learning how to observe, measure, document, trend, and prioritize equipment condition.

• Inspect Electrical Assets

Learn how ultrasound is used to detect electrical defects such as corona, tracking, and arcing in energized electrical assets.

• Detect/Quantify Compressed Air Leaks

Learn the principles of leak detection and how ultrasound is used to locate, confirm, document, and support corrective action for compressed air and gas leaks.

• Inspect Valves and Steam Traps

Understand how ultrasound is applied to steam systems, valves, and traps to identify passing, blockage, leakage, and inefficient operation.

• Assess Hydraulic Systems

Learn how ultrasound can help evaluate hydraulic systems by identifying turbulence, restriction, internal leakage, and abnormal operating conditions.

• Manage Data and Condition Indicators

Understand what ultrasound is, how it behaves, and why it is one of the most versatile technologies in predictive maintenance.

• Perform Tightness Testing

Explore the principles and practical methods of using ultrasound for tightness testing, leak verification, and quality control applications.

• Monitor Mechanical Assets

Apply ultrasound to rotating equipment, bearings, and mechanical systems to identify changes in friction, impacting, lubrication condition, and failure development.

• Improve Bearing Lubrication Practices

Learn how ultrasound supports precision lubrication by helping technicians identify when grease is needed, monitor bearing response, and avoid over- or under-lubrication.

• Analyze, Act, and Resolve

Develop a practical workflow for moving from inspection data to maintenance action, including severity assessment, reporting, recommendations, and follow-up.

• Practice with Instruments and Software

Gain hands-on experience using ultrasound instruments and software to collect data, review signals, analyze trends, and reinforce classroom learning.

• Prepare for Certification

Review key concepts, strengthen application knowledge, and prepare for the ISO CAT I Ultrasound Certification examination.

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