

# ISO CAT 1 and Level 1 ASNT Certification Training

Achieve the qualification to set you on the path to become a certified ultrasound inspector

## The scope

The Airborne and Structure Borne Ultrasound Inspector's courses are a four-day comprehensive mix of theory and practical experience. Students are exposed to introductory sound theory and how it is applied to the inspection disciplines demanded by an effective ultrasound programme.

Ultrasound provides the earliest indication of many plant defects, which allows for planning of maintenance activities, avoiding unplanned downtime. As the inspector responsible for this condition monitoring activity, you need the knowledge to understand your task.

During the training you have an opportunity to work with and learn from one of the world's most experienced ultrasound trainers and inspectors. Offering you the learner a wealth of knowledge and experience in ultrasound techniques.

## Course objectives

- Understanding the principles of ultrasound as applied to predictive maintenance
- Providing knowledge of airborne and structure-borne sensors and their functions.
- Find Leaks in Any Industrial Environment
- Apply Sound Based Techniques to Lubrication Tasks
- Apply Sound Based Techniques to Predict Mechanical/Electrical Failures
- Analyse and trending data; utilising time signal analysis identify defects.
- A study of ultrasound applications
- Providing recommendations supporting condition-based maintenance
- Achieve reliability improvement by implementation of an ultrasound programme.

## Course prerequisites

A scientific calculator is required for the course.  
No mobile phone calculators will be allowed at all.

## Certification requirements

- A minimum of six months practical experience using the Ultrasound devices (SDT)
- The results of a hearing test from within the same calendar year
- Pass ISO CAT 1 or ASNT Ultrasound Certification Training exam (achieve the highest qualification in ultrasound – an internationally recognised certificated course from the Mobius Institute)



2 Day Course

## Who should attend?

- Condition monitoring and reliability practitioners
- Energy managers and auditors
- Electrical and mechanical engineers
- Electrical and mechanical maintenance personnel
- Engineering managers
- Asset managers

## Course outcomes

- How to apply sound based techniques to predict mechanical and electrical failures
- Using Ultrasound Technology effectively for a condition based maintenance tactic.
- Student is capable to perform assessments and reporting on the condition of plant equipment.
- Student meets the Standard Level of Knowledge and Expertise

## The facilitator



**Tom Murphy |**  
Corporate Training  
Manager at SDT  
International



The world's most experienced ultrasound trainer and inspector.



# Registration form

## ISO CAT 1 and Level 1 ASNT Certification Training

Send completed registration form with a copy of your company purchase to  
training@martec.co.za or fax it to +27 (0)86 502 0634

Training date		Course rate pp exl VAT	Provided on request as the price fluctuates with exchange rates		
Venue	Pragma Group Building – Treur Close, Waterfall Park, Midrand				
Delegate details	Delegate 1		Delegate 2		Delegate 3
Name					
Surname					
Job title					
ID number					
Email					
Mobile no					
Dietary requirement	Standard		Halal		
			Standard		
			Halal		
			Standard		
			Halal		
Company and payment details					
Company name					
Billing address					
Telephone no			Fax no		
Purchase order no			VAT no		
Finance contact name and surname					
Tel no			Email		
Terms and conditions					

A confirmation letter and tax invoice will be sent to the delegate on receipt of this application. Confirmation of the delegate's registration including a map to the venue and a list of accommodation options in the area will be sent on receipt of confirmation of payment.

**All applicants must complete this registration form in full** and indicate your menu option. Halal menus are charged in addition to the above rate. Incomplete application forms cannot be processed.

**Full payment must be received prior to attending the course**

On arrival delegates must present the confirmation of registration that will have been emailed to them.

The course presenters reserve the right to refuse admission where this confirmation and evidence of payment cannot be shown.

### Cancellation and Non-attendance Policy

All notices of cancellation must be in writing. Cancellations received more than 10 working days prior to commencement of the course will be accepted subject to a 10% cancellation fee. Alternatively a substitute delegate will be accepted. Late cancellations (10 or less working days prior to commencement of the course) and non-attendance are liable for the full invoice amount.

### Obligation to Pay

Even though the Company is liable for paying the course fee, the delegate retains ultimate responsibility for ensuring that the fee is paid.

### Confirmation of Registration

If you have not received your confirmation of booking before the course, please contact us to make sure that you are registered. Martec reserves the right to cancel any advertised course due to insufficient enrolments or conditions beyond our control.

I hereby confirm that I am authorised to sign for and on behalf of the Applicant Company and accept the above Terms and Conditions

Name	Signature	Date