

# Underground Storage Tank Tightness Testing

By acoustic method

Peace of mind knowing operators are effectively training in the detection of underground petrochemical leaks



2 Day Course

## The scope

### Level 1 Tank Test Training (2 days)

This two-day course consists of one day theory and one day of practical training and caters for condition monitoring professionals and maintenance planners who utilise the SDT270 TankTest kit.

The training provides the learner and operator with an understanding of the equipment and how to interpret the data collected. The acoustic testing of underground tanks is proven to be an effective and reliable method of detecting leaks in petrochemical applications and therefore preventing safety and environmental risks.

### Level 2 Tank Test Training (2 days)

Two days of practical training offer a deeper understanding of the methodology surrounding this method of testing.

## Course objectives

- Acoustics and ultrasound technology
- Principles of tightness control by acoustic methods
- Qualification of the measuring system
- Control procedures
- Concepts of tightness and leakage
- Leakage of gas and liquid
- Parameters influencing the flow rate
- Consequences of UST tightness testing

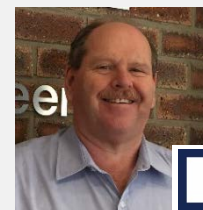
## Course outcomes

- The principles of ultrasound
- How ultrasound is applied to leak detection
- The properties of leaks
- How to apply sound based techniques to diagnose leaks
- Learning practical techniques for different tank construction and installation environments

## Who should attend

- Condition monitoring and reliability professionals
- Environmental consultants
- Energy managers and auditors
- Field inspectors of petrochemical storage tanks
- Tank manufacturers
- Contractors

## The facilitator



**Tom H Dalton |  
Transformer Reliability  
Specialist at Martec**



He holds a National Higher Diploma in Electrical Engineering and gained experience at Eskom specialising in oil analysis and management. He has worked on several working groups and committees concerned with transformers and insulating oils, written a number of specifications, and has co-authored two books on the subject. Tom has also developed an insulating oil management application to assess transformer condition.

# Registration Form

## Underground Storage Tank Tightness Testing

Send completed registration form with a copy of your company purchase order to [training@martec.co.za](mailto: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					
<b>Delegate details</b>	<b>Delegate 1</b>	<b>Delegate 2</b>	<b>Delegate 3</b>			
Name						
Surname						
Job title						
ID number						
Email						
Mobile no						
Dietary requirement	Standard	Halal	Standard	Halal	Standard	Halal

<b>Company and payment details</b>			
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