

Transformer Condition Management – Level 1

ECSA Validation no: SAAMA2017519 for
2 CPD credits

A comprehensive training course for managing transformers in service by analysis of the transformers oil



2 Day Course

The scope

This two-day course covers theoretical solutions for the analysis and management of transformer insulating oils. Principles of Transformer Condition Management are expressed through defect detection, monitoring and diagnosis. Technological solutions are presented for adoption into effective reliability and asset management programmes.

Course Overview

Day one

- Comparison of various oil types
- Transformer condition monitoring
- Laboratory processes
- Gas in oil interpretation
- Breakdown of oil molecules
- Calculations and ratios
- Visualising data
- Production rates
- Oil quality

Day two

- Oil sampling automation
- Moisture management and removal
- Life extension of the transformer
- Degree of polymerisation
- Analysis automation



*NB: Each delegate must bring their own laptop with MS Excel installed

Who should attend

- Maintenance technicians and engineers
- Operating personnel who have the delegated authority to return transformers to service
- Personnel who are involved in condition monitoring
- Maintenance and Engineering managers

Course outcomes

- Understanding of transformer health indicators
- Interpretation of oil analysis
- Making informed maintenance decisions based on analysed results
- Extending transformer life by implementing condition-based maintenance
- Evaluating risk and reliability by structured evaluation techniques.

The facilitator



Tom H Dalton |
Transformer Reliability
Specialist at Martec



Tom is a Condition Monitoring Specialist, with over 30 years of experience in the Power Generation, Transmission and Distribution fraternities. He has worked with several technical committees and work groups contributing to engineering standards development. He has also co-authored two books on power transformers and developed a software package for transformer condition assessments.

Registration form

Transformer Condition Management – Level 1

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

Training date		Course rate pp exl VAT	R7 400.00
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

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