

Transformer Condition Management

ECSA Validation no: SAAMA2016108 for 4 credits

Complete training for managing transformers in service by analysis of the transformers life blood - the oil



18 – 21 June 2019

The scope

This four-day course covers theory and practical solutions for the analysis and management of transformer insulating oils

- Insulating fluids
- Specifications
- Researching the market
- Oil classes
- Transformer design and materials
- Dual operational transformer triangles
- Transformer life management
- Oil sampling methodology
- Transformer risk profiles
- Laboratory process
- Gas in oil interpretation
- Breakdown of oil molecules
- Gases produced from oil
- Calculations and ratios
- Trending data
- Production rates
- Sample automation
- Artificial intelligence
- Quality assurance testing
- Moisture management and removal
- Oxidation and sludge management
- Degree of polymerisation
- Polychlorinated biphenyls
- Safe handling and management

Who should attend?

- Maintenance technicians and engineers
- Reliability engineers
- Condition monitoring practitioners

Course prerequisites

- Post matriculation technical electrical qualifications or an understanding of the operation and construction of a transformer
- An operational knowledge of MS Excel (the interpretation of oil results involves calculations performed in MS Excel)
- Each delegate must bring their own laptop with MS Excel installed

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

Transformer Condition Management

Send completed registration form with a copy of your company purchase order to 1account@martec.co.za or training@martec.co.za or fax it to +27 (0)86 502 0634

Learner details					
Name and surname					
Designation					
Email address		Cell no		Tel no	
Race		Gender			
Dietary requirement	Halal	<input type="checkbox"/>	Vegetarian	<input type="checkbox"/>	Other
Invoicing details					
Company name					
Billing address					
Physical address					
VAT registration no			Purchase order no		
Person responsible for payment					
Name and surname					
Email address			Tel no		
Course information					
Venue	Course date		Course rate pp exl VAT		
Pragma Group Building – Treur Close, Waterfall Park, Midrand			R13 500.00		

Rates for South Africa only

Terms and conditions of registration

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

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Training date		Course rate pp exl VAT	R13 500.00
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	

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