

Transformer Condition Management - Level 2

ECSA Validation no: SAAMA2017497 for 4 credits

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



5 day virtual instructor led training

The scope

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

Day 1

- Insulating fluids
- Specifications
- Researching the market
- Transformer design and materials
- Dual operational transformer triangles
- Transformer life management

Day 2

- Oil sampling methodology
- Transformer risk assessment (practical)
- Laboratory process
- Gas in oil interpretation

Day 3

- Calculations and ratios (practical)
- Trending data
- Production rates (practical)

Day 4

- Sample automation
- Artificial intelligence and IIoT
- Oil storage and quality assurance
- Moisture management and removal (practical)

Day 5

- Oxidation and sludge management
- Paper ageing, furans and DP
- Polychlorinated biphenyls (PCB)
- Course Assessment



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 – Level 2

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

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|--|---------------|--|---------------|--|--|--|------|-----------|------|
| Training date | Check website | Course rate pp exl VAT | Check website | | | | | | |
| 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 | | | | | | | | | |
| 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 | | | | | | | | | |
| <p>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.</p> <p>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.</p> <p>Full payment must be received prior to attending the course</p> <p>On arrival delegates must present the confirmation of registration that will have been emailed to them.</p> <p>The course presenters reserve the right to refuse admission where this confirmation and evidence of payment cannot be shown.</p> <p>Cancellation and Non-attendance Policy</p> <p>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.</p> <p>Obligation to Pay</p> <p>Even though the Company is liable for paying the course fee, the delegate retains ultimate responsibility for ensuring that the fee is paid.</p> <p>Confirmation of Registration</p> <p>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.</p> <p>I hereby confirm that I am authorised to sign for and on behalf of the Applicant Company and accept the above Terms and Conditions</p> | | | | | | | | | |
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