

Destructive Electrical Discharge

2 day course

A practical course built on theory to understand the cause and effect and to manage the risks associated with electrical assets and the safety of personnel

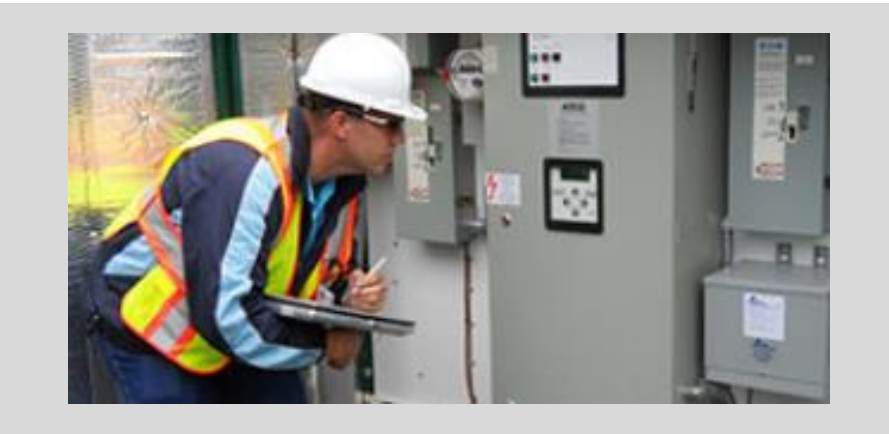


13 – 14 August 2019

The scope

Partial discharge and partial arcing lead to more catastrophic electrical equipment failure than any other single cause. Destruction in the form of an arc flash incident, explosion and fire are the cause of numerous serious injuries and fatalities every year. Risk is significant and poorly understood.

Today there is a better understanding of the cause, effect and the means to predict a failure. The first line of defence is knowledge. Provided by this course is an in-depth understanding of the principals and good practise for identification of risks associated with destructive electrical discharge.



Course objectives

- Types of electrical discharge (PD, PA, EMD)
- Associated risks to plant and personnel
- Theoretical explanation for the root causes
- Common causes of discharge in equipment
- Destructive effects, short term and long term
- Recognising destructive electrical discharge
- Risk determination, when to act
- Detection and measurement methods
- Remedial action
- Prevention measures
- A practical approach to various types of equipment – case studies
- Safe work practice

Who should attend?

- Maintenance artisans, technicians and reliability / electrical engineers
- Operating personnel who have the delegated authority to maintain, service or operate power electrical equipment
- Personnel who are involved in electrical plant condition monitoring, maintenance managers and safety officers

Course prerequisites

- Post matriculation electro-technical or safety qualification
- Experience with and/or exposure to power electrical plant and equipment

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.

Course | Destructive Electrical Discharge

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		Vegetarian		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			R7000.00		

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	R7000.00					
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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