MASTER CLASS
IN OUTDOOR HIGH VOLTAGE INSULATORS

PURPOSE

The Master Class in "Outdoor High Voltage Insulators" is intended to provide an understanding of the factors which dictate the behavior of overhead line and substation insulators and to generate an appreciation of the parameters which have a significant influence on their performance and life.

The emphasis of the course is definitely on the "practical" and simple procedures, decision tables, and flow charts. Inspection sheets are included to assist those involved in the design and operation of electrical transmission and distribution systems.

TARGET AUDIENCE

The course is a practical guide for utility staff and consulting engineers responsible for the selection, installation and maintenance of insulators for outdoor high voltage lines and substations. Engineers and technical staff involved with the specification, procurement, design and asset management of insulators will greatly benefit.

Insulator types and their characteristics, electrical, mechanical, material and environmental considerations, insulator selection, tests and specifications, failure mechanisms, handling and installation practices, line and substation performance improvement, and pollution mitigation techniques are all dealt with in detail, with emphasis on practical field application.

PRESENTERS

Dr. Wallace Vosloo
(Pr.Eng, NHD, BSc (Physics), PhD (Eng.Sci), FSAIEE, SMIEEE)

Dr. Vosloo has over 25 years of experience in the field of High Voltage Engineering. He is Corporate Specialist High Voltage Engineering at Eskom and presents various training courses in the field of High Voltage Engineering.

He has authored and co-authored over 100 papers in topics related to the field of high voltage insulators. He has also written the books "The Practical Guide to Outdoor High Voltage Insulators", co-authored by Roy Macey and Dr C de Tourreil and "High Voltage Engineering Practice and Theory" along with Dr JP Holtzhausen.

Dr Vosloo is a recipient of the SAIEE President's Award for his contribution to the development of high voltage insulator research and investigation capabilities and standards in South Africa and the Claude de Tourreil Memorial Award for Lifetime Achievement in the Field of Electrical Insulation. He is also an active member of various national and international working groups.

TESTIMONIALS

"The presenter is an expert in this field. He was well organised and presented the material in such a way that kept the audience on their toes and interested and has a brilliant sense of humour."

"Examples discussed are related to practical activities I deal with. Presenter well prepared and experienced with sense of humour to entertain the class. Presenter willing to hand over information freely."

"The presenter, himself, is good and accommodating - he knows his story. The course was great and very useful the way it was introduced. I've learnt a lot of things about insulators, I didn't know the story behind it could be so broad. Now I know more about its importance."

"Overall the course was great, excellent instructor full of humour. I enjoyed it. He made it easy to understand the theoretical aspect of insulators."

COURSE OBJECTIVES

At the conclusion of this program, participants will be able to:

- Demonstrate the attitudes and skills necessary to identify and support insulator performance.
- Understand electrical aspects and mechanisms for insulator selection.
- Reduce the risk and increase the investment return from change initiatives.
- Identify and assess ambient conditions that influence insulator performance.
- Develop methods to interpret climate data and pollution levels.
- Determine relative characteristics of dielectric materials in manufacturing to ensure suitability to application.
- Understand mechanical and electrical functions of overhead & substations line insulators.
- Confidently analyse and establish minimum strength requirements
- Develop strategies to address reduced transformer performance in polluted environments
- Be able to establish precise nature of faults and their causes

PLEASE NOTE:

Easy to use procedures, guides, decision tables, flowcharts, inspection sheets and software are included. IEC standards and SI units are used throughout.

COURSE PRICE

$1,200 + GST for API/CIGRE members.
$1,500 + GST for non members

*Course fees include catering and electronic course material.

DATES & LOCATIONS

The course will be held in the following cities with the following dates:

Perth:	17-18 July 2018
Melbourne:	23-24 July 2018
Sydney:	26-27 July 2018
Brisbane :	31 July - 1 August 2018

*Venues TBA

COURSE NUMBERS

Each Master Class will have a minimum of 12 participants based on registration numbers two weeks prior the event. To ensurean interactive event, numbers will be held at a maximum of 35.

AGENDA

Start	Finish	Day 1	Day 2
8:00	9:00	Welcome & Introduction	Tests & Specifications
9:00	10:15	Insulator Types & Characteristics	Insulator Selection & Specifications
10:15	10:30	Morning Tea	Morning Tea
10:30	11:30	Electrical Considerations	Handling & Installation Practices
11:30	12:30	Environmental Considerations	Inspection & Analysis Techniques
12:30	1:30	Lunch	Lunch
1:30	2:30	Material Considerations	Pollution Mitigation Techniques
2:30	3:30	Mechanical Considerations	New IEC 60815
3:30	3:45	Afternoon Tea	Aternoon Tea
3:45	4:45	Failure Mechanisims	Discussion & Conclusion

REGISTRATION, ACCOMMODATION AND FURTHER INFORMATION

Registration available from http://purelycreative.currinda.com/event/1166

Accommodation if required is the responsibility of participants.

Technical enquiries may be addressed to Australia Power Institute (API) Chief Executive, Mike Griffin, mcgriffin@caloundra.net.au.

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