Medium Voltage & High Voltage Switchgear Operations & Maintenance

21 - 25 Dec 2015
Kuala Lumpur, Malaysia
Why Choose this Course?

This course will present a comprehensive capsule of all the knowledge essential for the medium voltage and high voltage switchgear operations and walk the participants through the switchgear design process using a set of interlinked case studies. The course focuses mainly on the operation and maintenance of distribution equipment namely transformers, circuit breakers, contactors, isolators and disconnectors (this will also include the auxiliary peripherals and control circuits).

Medium and high voltages switchgears are the integral component of any electrical distribution system; hence, the selection and installation of these switchgears are vital so as to provide protection and safe distribution of electrical power. The equipment needs to be operated in a safe manner securing continuity of supply to consumers.

This course will feature:

- Understanding the types of medium voltage and high voltage switchgears
- Operation principle of medium voltage circuit breakers
- Identification of the various types of high voltage switchgears
- Maintenance of testing of switchgears
- Construction and operations of high voltage transformers

What are the Goals?

By the end of this course, participants will be able to:

- Understand the role and importance of switchgears
- Determine the components and operations of medium voltage circuit breakers
- Explain the different types of maintenance and testing for switchgears
- Analyse the common faults and short circuit current
- Design and components of high voltage transformers

How will this be Presented?

This course will utilise a variety of proven adult training techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes presentation and discussion of latest videos and technologies on medium and high voltage switchgears.

Questions are encouraged throughout, particularly at the daily wrap up sessions. This provides opportunities for participants to discuss with the Presenter specific issues and, if possible, find appropriate solutions. Specific goals of each participant will be discussed to ensure that their needs are fulfilled whenever practicable.

Course Schedule:

KUALA LUMPUR, MALAYSIA
21 - 25 Dec 2015

Who is this Course for?

This course will benefit all levels of professional in an electrical installation. It will enable them to understand operations and maintenance of medium and high voltage circuit breakers and switchgears.

This course is suitable to a wide range of technical professionals but will greatly benefit:

- Electricians
- Electrical supervisors
- Plant electricians
- Operations & maintenance engineers, supervisors & technicians
- Maintenance technicians
Circuit breakers, auto reclosers, disconnectors and sectionalisers operations
Earth switches construction and applications
Switchgear symbols on single-line diagrams
Substation switchgear layouts
Types of current situation
Fault clearing process

Compression principles
SF6 hazards and test equipments
Dead and Live tank HV circuit breakers
Operation mechanisms of HV circuit breakers
Vacuum interrupters operation and maintenance
Automated circuit breaker monitoring

Manufacturer testing
Installation and commissioning
Documentation requirements
Importance of maintenance & testing
Maintenance strategies
Infrared testing

Introduction to types of relay
Relay selection, basic concepts and characteristics
Types of distress and protection modes
Introduction to safety in HV Substations
Switchgear numbering and nomenclature
Switchgear mechanical and electrical interlocking

HV current transformers construction, operation and maintenance
HV potential transformers features and operation
Power transformer construction and operation
Buchholz relay, pressure relief device
Protective relay, conservator and breather operating principles
Maintenance of power transformers

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REGISTRATION DETAILS

Family Name: ...................................................................................
First Name (Mr./Ms.): ...................................................................................
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Company: ...................................................................................
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Fax   ...........................................................
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AUTHORISATION

Authorised by: ...................................................................................
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FEES

US$ 4,950/- per participant
This fee is inclusive of Documentation, Lunch and Refreshments

MODE OF PAYMENT

☐ Please invoice my company
☐ Please invoice me
☐ Please find enclosed a cheque payable to AZTECH

HOTEL ACCOMMODATION

Hotel accommodation is not included in the Registration Fee. A reduced corporate rate and a limited number of rooms are available for attendees wishing to stay at the hotel venue.

Please make your request for accommodation at least 3 weeks prior to the commencement of the program.

CANCELLATIONS & SUBSTITUTIONS

You must notify the Registrar of cancellations at least 2 weeks before a scheduled seminar in order to be eligible for a credit. If you cannot attend, you may send a replacement from your organisation at no charge. There is a $250 handling charge for all cancellations or rescheduling. We reserve the right to cancel a seminar due to low enrollment. All registrants will be notified in advance and a full refund will be provided upon request.

DISCLAIMER

Circumstances beyond the control of AZTech may necessitate postponement, change of venue or substitution of the Instructor. As such, AZTech reserves the right to implement such amendments.

4 WAYS TO REGISTER

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ABOUT AZTECH

A leading international provider of training, seminars, and learning solutions. We offer Strategy, Management & Leadership Development Programs, Functional & Technical Seminars, Customised In-house Programs, and Business Consultancy for Performance Solutions.

CERTIFICATION

AZTech Certificate of Completion will only be awarded to those delegates who attend and complete the course.