



Training Program:

MV, HV & EHV Switchgear Testing & Comsng

www.btsconsultant.com

Introduction:

Switchgears are very important for electrical power transmission and distribution especially in populated areas. The course contains the different types of switchgear, switchgear construction and components, different types of circuit breakers and protection system, SF6 properties, recovery voltage and re-striking voltage, problems of circuit breakers, maintenance of circuit breakers and testing of circuit breakers

Who Should Attend?

Electrical power engineers and advanced operating staff of substations, factories, electrical distribution networks and transmission.

Methodology

This interactive Training will be highly interactive, with opportunities to advance your opinions and ideas and will include;

- Lectures
- Workshop & Work Presentation
- Case Studies and Practical Exercise
- Videos and General Discussions

Accreditation:

BTS attendance certificate will be issued to all attendees completing a minimum of 80% of the total course duration.

Objective:

- To know the HV and LV switchgear construction and components.
- To know how to make maintenance for the switchgear
- To learn how the switchgear can be tested according to standard specifications
- To know the ratings of circuit breakers
- To know the Problems of the circuit breakers
- To study the protection system

Course Outline

- Components of switchgear
- Arc phenomena and how to interrupt the arc
- Types of circuit breakers
- Oil circuit breakers
- Air circuit breakers
- Vacuum circuit breakers
- SF6 circuit breakers
- Re-striking voltage
- Recovery voltage
- Properties of SF6

- GIS
- Ratings of circuit breakers
- Problems of circuit breakers
- Loading of circuit breakers by capacitive or inductive loads
- Current transformers
- Voltage transformer
- Maintenance of circuit breakers
- Testing of circuit breakers according to IEC
- Protection system
- Real-time monitoring and control
- Risk-based Dynamic security Assessment