ELECTRICAL MEASURING EQUIPMENT (REF:OTSEME001)

Course Introduction

The methods for electrical power testing are versatile and has many applications. The course will be deeply discussing the testing, measurements, as well as the calculations required in the electrical power measurements.

Who Should Attend

Electrical maintenance and operation staff, Field Engineers, Supervisors and others responsible for Electrical Maintenance

Learning Outcomes

To train the participants on the different associated measuring and testing equipment in relations to the electrical power measurements, show how to test and calibrate different types of protection relays.

Course Outline

DAY 1

Pre Course Test:

- Basic Electrical Theory
- Basic electrical calculations
- Electrical Measurements
- Electrical Safety Earthing
- Fuses / MCBS / RCDS
- Electrical testing methodologies
- Testing devices Protection Devices
- Transformers and Electrical Distribution
- Substation Testing & Safety

DAY 2

- Insulation resistance measurements
- Step voltage and high voltage measurements
- Testing power factor correcting capacitors
- AC Voltage measurements Techniques
- Power factor and dissipation factor tests
- AC high potential test
- Very low resistance measurements
- Transformer oil dielectric test
- Protection relays calibration
- Impedance measurements
- Testing equipment calibration.

- Post Course Test:

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