Training Program:

Electrical Distribution Equipment Operation & Maintenance Best Practices and Strategies

Introduction:

The course details the actions required to commission a system to confirm that it works correctly and the specification has been met. The equipment can then be put into operation with confidence.

The completion of commissioning should also trigger the start of a cycle of maintenance that will keep the system functioning in a safe manner for the expected lifetime of the installation. The course goes into detail as to how this can be achieved.

The course then examines troubleshooting concepts and methods on a variety of types of system, and concludes with a review of actions to take in emergency scenarios.

Who Should Attend?

This course is directed at managers, electrical technicians, maintenance engineers and electrical engineers who would like to expand their knowledge of preventive maintenance of electrical installations.

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:

This course is intended to develop knowledge of:

- Commissioning
- Maintenance
- Troubleshooting
- Emergency situations

Course Outline

Day 1: Introduction to Commissioning

- Electrical equipment specification
- Manufacturers tests
- Pre-commissioning
- Commissioning
- Electrical Safety
- IEC 60364

- Wiring Regulations
- Maintenance
- Troubleshooting
- Personal and equipment safety
- Commissioning test methods
- Documentation

Day 2: Commissioning

- Hazardous area equipment
- Switchrooms
- Motors
- Generators
- Switchgear
- Protection
- Cables and Transformers
- Power Electronics
- Lighting
- Earthing (Grounding) and Bonding

Day 3: Maintenance Management

- Requirements
- Stand by and Safety Services
- Planning
- Documentation

Day 4: Troubleshooting Methods

- Hazardous Area Equipment
- Motors
- Generators
- Switchgear
- Cables
- Power Transformers

Day 5: Emergency Situations

- Electrical Emergencies
- System Design
- Emergency Systems
- Priority Setting
- Communications