Course goal
The primary course aim is to ensure safe, cost-efficient and risk-free operation of customers’ Gas Insulated Switchgear system.

Learning objectives
The participant
- understands the operation and maintenance philosophy
- knows the overhaul criteria
- is able to set up a maintenance plan for the project-specific Gas Insulated Switchgear system
- can apply tools for maintenance supervision
- knows relevant technical documentations
- SF6-gas, handling and measuring instruments

Participant profile
Design and planning personnel, engineering and application personnel, operation and maintenance personnel, consultants from electricity supply industry, technical personnel from ABB companies

Prerequisites
Basic knowledge on electrical or mechanical engineering, knowledge on Gas Insulated Switchgear system

Topics
Product description and design
- Circuit-breaker and breaker drive mechanism
- Disconnector, earthing switch, fast acting earthing switch
- Statical components like connecting elements, busbars, lateral dismantling elements, compensators
- SF6-to-air bushing
- Surge arrester

GIS layout and gas schematic diagram
- Gas schematic diagram and concept of segregation for selective access to components
- Layout concept and feeder architecture

SF6-gas, handling and measuring instruments
- Properties and environmental aspects when working with SF6-gas
- Handling equipment and practical application of reclaimer (evacuating, filling, reclaiming)
- Measuring instruments incl. practical measurements (air content/humidity and density)

Operation, maintenance and trouble shooting
- Guide through switchgear manual about steps and rules for operation and maintenance
- Planning and checkpoints of maintenance tour
- Time-based and load-based maintenance and corresponding maintenance intervals
- Maintenance and operation procedures on apparatus
- Repair procedures for CB-chamber, CB-drive, replacing DS/ES drive, work with pressurized compartments and insulators

Course type and methods
Presentations, practical demonstrations, exercises, factory tour

Duration
10 days

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