Course goal
The course conveys knowledge on the ABB Gas Insulated Switchgear product portfolio, its function, operation and maintenance philosophy.

Learning objectives
The participant
- understands the function and design of a Gas Insulated Switchgear
- can describe the function of the components and their working principle
- knows typical single line diagrams and arrangements of gas zones
- knows the ABB product portfolio range and Gas Insulated Switchgear specific applications and benefits
- understands the operation and maintenance philosophy

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 switchgear.

Topics
Introduction
- Overview on typical single line diagrams for GIS and associated physical layout architecture
- Rules for subdivision of GIS to gas zones

Function and design of components
- Design features
- Working principle and technical data of switching components like circuit-breakers, disconnectors, grounding switches
- Spring hydraulic drive mechanism

- Statical components like voltage- and current transformers
- Connecting elements, SF6-gas -to-air bushings, cable and transformer interfaces
- Gas supervision apparatus (level switches, on-line gas monitoring)

SF6-gas handling
- Properties of SF6-gas environmental aspects
- Application of dewpoint-, decomposition products-, SF6-gas %, -measuring devices
- Pressure gauges for GIS
- Leak detection

Maintenance concept
- Overview on operation and maintenance manual
- Service concept of GIS

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

Duration
5 days

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