For anyone managing GIS assets, it is essential to understand the maintenance criteria as well as the possibilities to extend the lifetime and reliability of the equipment during its complete lifecycle. This will form the basis of a sound service strategy with the best possible return on investment as a result.

About us
ABB High Voltage Products, located in Zurich, Switzerland has been manufacturing gas-insulated switchgear since 1967. Thanks to robust designs, high quality right from the start, and a good service strategy, most of the earliest installations are still in operation.

Purpose of course
Increase your overall GIS know-how in practice and theory. Meet with ABB high voltage product experts and learn more about suitable maintenance strategies.

The course will guide you through the most essential parts of the different service strategies needed to give your gas-insulated switchgear a long and healthy life. It will put some perspective on technology developments achieved throughout the years and provide you with insights on how to modernize your existing equipment. Get familiar with the processes and advanced services used today and obtain an outlook of what is to be expected in the future. Overall, the course provides you with the basic know-how and contacts to experts that help you shape your maintenance strategy in the future.

Training content
The course stretches over 4 days comprising of different modules consisting of theoretical and practical parts:

Latest GIS technology
- What is state-of-the-art today?
- What technology is currently under development?

GIS Service portfolio and maintenance philosophy
- How do you extend the lifetime of a GIS
- What is the difference between time and condition based maintenance for GIS?

Case study on failure mitigation and risk management
- How do you best prepare for the worst case?
- How to mitigate failures through proper risk management

Troubleshooting
- What if a failure occurs?
- What are suitable steps to take and which people to contact?

Condition monitoring and diagnosis of a GIS
- What are the parameters influencing the condition-based maintenance criteria?
- Monitoring of SF₆ gas and partial discharge

SF₆ gas handling
- Environmental background and properties of SF₆ gas
- Rules for handling
- Measurement of SF₆ gas quality (pressure, humidity) using state-of-the-art today analyzer

Circuit breaker drive maintenance
- Understand drive design
- Maintenance checks/ intervals
- Hydraulic modules and their function

Field trip
- Visit a substation were service on GIS has helped to extend the lifetime and increase reliability

Note: for site visit and practical training, safety shoes and practical clothing is compulsory and must be brought by the participants themselves.
Targeted participants
In general people with a basic knowledge about GIS that want some more detailed know-how on the maintenance possibilities and alternatives for GIS. And anyone interested in the performance, reliability and availability increase of this strategic asset.

Typically this includes:
- Asset managers
- Maintenance managers
- Substation managers
- Operation & maintenance staff

Training methodology
- Classroom training
- Workshops and case studies
- Training in repair shop
- Field trip

Course location and facilities
The course will take place in the ABB GIS factory in Zurich, Switzerland. This factory is an impressive example of Swiss manufacturing and hosts some of the world’s leading GIS experts.

Registeration fees
CHS289 (4-day training): 2500 CHF

The registration fee includes:
- Four days of tutored training
- Meet & greet with technical experts
- Field trip to GIS substation
- Training documentation
- Food and drinks during the days
- Dinner for Days 1 to 3

Accommodation
Each participant is responsible for his own accommodation. Feel free to contact us to get recommendations on hotels.

Key points
Group size: 6 – 10 Participants
Language: English
Location: Zurich, Switzerland
Registration: gis_training@ch.abb.com

Dates
18 – 21 March 2014
13 – 16 May 2014
16 – 19 September 2014

31 January 2014
31 March 2014
31 July 2014

Indicative Agenda

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We hope to welcome you soon.

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