Course description

G911
Electrical Machines
Operation and Maintenance

Course goal
After visiting the course participants will be able to
- get a common understanding of electrical machines.
- make a competent assessment of the faults most frequently arising on electrical machines and to initiate the necessary corrective measures.
- perform a simple maintenance independently.

Participants
Design and planning-, engineering and application-, maintenance and operating personnel as well as consultants from the Electricity Supply Industry. Business managers, sales and technical personnel from ABB companies.

Prerequisites
Technically trained persons

Methods
Lectures, demonstrations, hands-on with common equipment (about 1/3 of the time), practical exercises, discussions, factory tours.

Topics
Basics
- Brief introduction into the theory of electrical machines.
- Mechanical and electrical design of electrical machines
- Fundamentals and terminology of maintenance and life cycle management

Electrical Machines Maintenance
- Test methods and determination of state particularly with regard to:
  - bearing condition and vibration
  - simple check of the windings,
  - diagnosis of sliprings and commutator,
  - faults on brushes and brush gear,
- Methods for eliminating the most frequently occurring faults.

Duration
3 days
Max. 14 participants

Cost
CHF 2400,- incl. lunch and snacks, comprehensive documentation.
One soiree for networking and exchange.