

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- I, 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.

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