

## Course description

# G911 Electrical Machines Operation and Maintenance

### Course goal

- Getting a common understanding of electrical - machines.
- To be able to make a competent assessment of the faults most frequently arising on electrical machines and to initiate the necessary corrective measures.
- To be able to perform a simple maintenance independently.

### Participant

Design and planning personnel, engineering and application personnel, maintenance and operating personnel and consultants from the Electricity Supply Industry.

Business managers, sales personnel and technical personnel from ABB companies.

### Prerequisites

Technically trained persons

### 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

### Methods

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

### Duration

3 days

Max. 14 participants

Tailor made courses on request

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