Course description

**CHS411**

SF₆-Gas Handling and SF₆-Gas Measuring Instruments

**Course goal**
- Know-how about properties of SF₆-gas for application with HV-switchgear
- rules for environmental-friendly handling of SF₆
- correct application of SF₆-gas handling devices for filling and reclaiming procedures
- correct application of SF₆-gas measuring instruments, measuring results and limiting values for GIS

**Participant**
Project management and purchasing, operation and maintenance staff, electricity power board staff, contractor’s engineering and technical staff for HV-substations, Sales engineers and technical personnel from ABB companies

**Prerequisites**
Basic knowledge about SF₆-Gas

**Topics**
- Introduction
  - properties of SF₆-gas, environmental aspects,
  - rules for safe handling of SF₆ for operation, maintenance and overhaul
  - disposal of decomposed SF₆ and decomposition products
- Gas filling and reclaiming procedures
  - correct use of SF₆-gas handling devices for filling and reclaiming procedures
  - practical work with DILOR gas handling devices (gas filling trolley, reclaimer, hose connections)
- SF₆ measuring instruments
  - modern and environmental-friendly measuring devices for SF₆, measuring results and limiting values for GIS
  - application of dewpoint-, decomposition products-, SF₆-%, -measuring devices, pressure gauges for GIS, leak detection

**Methods**
Lectures, demonstrations, practical training with SF₆-gas handling devices and instruments, discussion

**Duration**
The duration is 2 days.