

G932 Service Training for Motors and Generators for Hazardous Areas

Course description



Course Duration

The duration of the course is two days.

Course Type

This is an instructor led course with some hands-on exercises. The training will be based on IEC 60079-17 and IEC 60079-19 standard. In the end of the training a test will be held to ensure that student has acquired the qualifications required.

Course Goal

The goal of the course is to **certify personnel for maintenance** of ABB's AC low and high voltage induction and synchronous motors and generators on the following protection types: flameproof, increased safety, pressurized, non sparking and dust ignition proof.

Student Profile

This training is targeted to service and maintenance technicians.

Prerequisites and Recommendations

The student should have basic knowledge and experience in service of standard motors prior to attending this course. Provide IEC 60079-17 and IEC 60079-19 standard in participants language (if available).

Course Objectives

Upon completion of this course, students will be able to

- describe the relevant standards and main principles of protection types
- describe the hazardous area motor and auxiliary constructions and motor protection
- carry out trouble shooting, adjustments and settings of hazardous area motors
- describe which the permitted maintenance and repair actions are
- carry out, supervise or advice maintenance and repair of hazardous area motors
- test the functionality of the motor after undertaken action

Main Topics

- Course Introduction
- Hazardous environments
- Directives and standards (EN and IEC-standards)
- ABB's hazardous area motor product range and design
- Service requirements for Hazardous area motors
- Dismantling and assembly guides
- Hands-on training

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BU's LV Motors, Machines
Training
ABB University

Agenda

Day 1

- 9:00 Welcome
Hazardous environments
- Break*
- 10:30 Standards in hazardous areas, general requirements of standards
- 12:30 *Lunch*
- 13:30 Ex-products
- Flameproof
 - Non-sparking
 - Increased safety
 - Pressurised
 - Dust ignition proof
 - Ex-motors in VSD
- Break*
- 15:00 Service Requirements for Ex-motors
- IEC 60079-19 standard
 - IEC 60079-17 standard
- 17:00 End of the day

Day 2

- 8:30 Dismantling and assembly guides
- Break*
- 9:30 Ex-motor service & maintenance
Hands on training
- 12:00 *Lunch*
- 13:00 Certification exam
- Break*
- 14:00 Summary of the training
Certification
- 15:00 Coffee and end of the training