

G932

Service training for motors and generators for hazardous areas

COURSE DESCRIPTION

Course goal

The goal of the course is to certify personnel to work as an Ex responsible in a service workshop for ABB low voltage hazardous areas motors and generators on the following protection types: flameproof, increased safety, pressurized, non sparking and dust ignition proof.

Learning objectives

Upon completion of this course, students will be able to:

- describe the relevant standards and main principles of protection types
- describe the hazardous are motor and auxiliary constructions and motor protection
- carry out trouble shooting, adjustments and settings of hazardous are motors
- describe which the permitted maintenance and repair actions are
- carry out, supervise or advice maintenance and repair of hazardous are motors
- test the functionality of the motor after undertaken action
- have a complete overview on the design of ABB Ex LV Motors

Participant profile

This training is mainly targeted to service and maintenance engineers, technicians and workshop management.

Prerequisites

The student should have basic knowledge and experience in service of standard motors prior to attending this course. Provide IEC 60079-14, IEC 60079-17 and IEC 60079-19 standards in participants language (if available).

Topics

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

Course type and methods

This is an instructor led course with some hands-on exercises. The training will be based on IEC 60079-14, IEC 60079-17 and IEC 60079-19 standards. In the end of the training a test will be held to ensure that student has acquired the qualifications required.

Course duration

The duration of the course is two days.

Language

The course is in English

BL Motors and Generators training

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Agenda

Day 1	Date
9:00	Welcome
	Hazardous environments
	Standards in hazardous areas, general requirements of standards
	Ex-protection modes (first part)
12:00	Lunch
13:00	Ex-protection modes (second part)
	ABB Ex-products
	Service requirements for Ex-motors: IEC 60079-14 standard
	Service requirements for Ex-motors: IEC 60079-17 standard
17:00	Finishing the lectures
Day 2	Date
9:00	Welcome
	Service requirements for Ex-motors: IEC 60079-19 standard
	Repair methods on ABB LV motors
	Warranty and After Sales
12:00	Lunch
13:00	Certification exam
	Dismantling and assembly guides
	Ex-motor service & maintenance
	Hands on training
	Summary of the training – Certification
17:00	Finishing the seminar