COURSE DESCRIPTION

CHH634 – GMD Ring Motor
Stator Winding Troubleshooting (Theoretical)

Course goal
The goal of this course is to understand all theoretical aspects of stator winding troubleshooting of a gearless mill drive (GMD) ring motor after a stator earth fault indication on the motor protection. Participants will learn about all the necessary preparation work, the needed material, and its relevance in the process. General, the course contributes effectively in the time saving path prior to the emergency repair with the target to minimize the forced outage time of the ring motor (one of the main sub-systems in the GMD system).

Main learning objectives
The participants will be able to:
— Name the main parts of a ring motor
— Understand the stator winding principle
— Read and interpret the stator winding diagram
— Locate stator earth fault position
— Initiate and conclude all required pre-works and preparation activities prior to the installation of a stator winding jumper
— Handle properly and store safely the hazardous material and understand the importance and role of the safety data sheet
— Prepare the workplace at site for the winding specific related tasks
— Know the content of a jumper kit

Topics
— Ring motor overview
— Stator winding principle
— Stator earth fault localization
— Knowing all required spare parts, tools and consumables related to an emergency repair
— Handling of hazardous materials and Material Safety Data Sheets (MSDS)
— Preparation of the workplace
— Jumper kit overview

Course type and methods
This is an instructor led course with presentations, exercises and interactive classroom discussions.

Duration
The duration is 2 days.

Remarks
Note: This course does not certify, approve, authorize, accredit or validate any engineer to perform any repair work. Any repairs must be performed by ABB or supervised by ABB.

This course can be delivered at:
— Customer site
— ABB training center in Switzerland

Participant profile
This training is targeted to skilled mechanical or electrical maintenance personnel and service engineers with electrical basic know how.

Prerequisites
Participants should have knowledge of the GMD system and the ring motor. Basic knowledge or experience in mechanical or electrical work is a plus.
## Course map

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| Time   | 9:00 a.m. – 5:00 p.m.                                                   | 9:00 a.m. – 5:00 p.m.                                                 |

Typical course layout (time or sequence may change)