
COURSE DESCRIPTION

CHH622 – GMD Ring Motor Operation and Maintenance (Theoretical)

Course goal

The goal of this course is to make the participants familiar with the aspects of operation and maintenance on a ring motor within a Gearless Mill Drive (GMD) system. This training will help to enhance the preparation, flawless execution and understand the maintenance philosophy.

Main learning objectives

The participants will be able to:

- Name the main parts of a ring motor
- Understand how the ring motor is manufactured
- Recognize the different types of ring motors
- Understand the installation sequence of a ring motor
- Prepare maintenance inspections for planned shutdown inspection on the ring motor
- Understand the structure of the operation and maintenance manual (OMM)
- Handle spare parts and store them correctly
- Proceed correctly in emergency cases such as unexpected shutdown of the ring motor

Participant profile

This training is targeted to skilled mechanical maintenance personnel and service engineers.

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.

Topics

- Ring motor overview
- Ring motor manufacturing
- Installation sequence of a ring motor
- Operation and maintenance manual (OMM) of the ring motor
- Preparation of the workplace for maintenance of a ring motor
- Knowing all required spare parts, tools and consumables related to operation, maintenance or emergency case of the ring motor

Course type and methods

This is an instructor-led course with presentations and interactive classroom discussions.

Duration

The duration is 3 days:

- 8 hours daily for face-to-face classes
- 5 hours daily for remote sessions

Remarks

Note: This course does not certify, approve, authorize, accredit or validate any technician/engineer to perform any maintenance work without ABB's written approval.

This course can be delivered:

- At customer site / any training facility organized by customer
- At ABB training center in Switzerland
- As a remote training session

Course map

	DAY 1	DAY 2	DAY 3
Topics	Welcome, personnel introduction Course overview Manufacturing of the ring motor Main parts of a ring motor Different types of ring motors	Review day 1 Installation steps of a ring motor Walk through factory Operation and maintenance manual (OMM) of the GMD system	Review day 2 Maintenance of a ring motor with its different strategies Spare parts/tools and their storage Emergency cases Summary Questions and answers Evaluation Course close
Time (face-to-face class)	9:00 am – 5:00 pm	9:00 am – 5:00 pm	9:00 am – 5:00 pm
Time (remote session)	to be defined	to be defined	to be defined

Typical course layout (time or sequence may change)