

# GCB HG 2/3 Maintenance Training Level 4

## COURSE DESCRIPTION



**Course goal:**

The participants acquire in-depth knowledge to overhaul Generator Circuit Breakers from the HG series. The goal is to understand the process and execution of a complete overhaul, including all the parts and components. Additionally, the trainee will learn how to use the special tools and how to prepare himself for the field intervention. He will also obtain important insights for effective on-site work management.

**Main learning objectives:**

- Understand the functions of all components inside a HG Breaker system
- Handling of the components with the crane
- Perform a complete overhaul on the arcing chamber and readjustment of linkage, between hydraulic spring operating mechanism and GCB.

**Participant profile:**

Field service engineer for Hitachi Energy, preferably on high voltage products or high current systems. Willingness to travel and work for the global service network.

**Prerequisites:**

- Good English skills (written and spoken)
- Ability to read wiring diagrams is required
- On-site experience in installation and/or commissioning
- Attended the local required health & safety Training
- First aid course with a certificate

**Topics:**

- Removing SF<sub>6</sub>-gas from the arcing chambers
- Disassembling and assembling the arcing chamber
- Readjustment of linkage
- Preparation of assembly drawings

**This is a theoretical and practical training course.**

**Certification:**

A confirmation will be issued after successful participation in this course, as part of the certification process.

Within 12 months, an on-site assessment must be carried out along with a final review to complete certification.

**Duration:**

5 days

**Enrolments:**

Send your request to

[GIS-GCB\\_Training@hitachienergy.com](mailto:GIS-GCB_Training@hitachienergy.com)

PREPARED		STATUS		SECURITY LEVEL	
2024-07-26	Manuel Engler	Approved		Public	
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2024-07-26	Zsolia Fodor	Agenda			
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GCB HG 2/3 Maintenance Training Level 4					
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				PAGE	2/3

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**Course agenda:**

	Day 1	Day 2	Day 3	Day 4	Day 5
<b>Subject</b>	Preparation for overhaul	Arcing chamber overhaul	Preparation overhaul	Arcing chamber overhaul	Testing
<b>Topics</b>	<ul style="list-style-type: none"> <li>❖ Health &amp; Safety Introduction</li> <li>❖ Removing SF<sub>6</sub>-gas</li> <li>❖ Lifting out the arcing chambers from the HGI 3 breaker system</li> </ul>	<ul style="list-style-type: none"> <li>❖ Overhaul arcing chamber and installing it back into the breaker system</li> <li>❖ Filling SF<sub>6</sub>-gas</li> </ul>	<ul style="list-style-type: none"> <li>❖ Removing SF<sub>6</sub>-gas</li> <li>❖ Lifting out the arcing chambers from the HGI 2 breaker system</li> </ul>	<ul style="list-style-type: none"> <li>❖ Overhaul arcing chamber and installing it back into the breaker system</li> <li>❖ Filling SF<sub>6</sub>-gas</li> </ul>	<ul style="list-style-type: none"> <li>❖ Final testing of equipment</li> </ul>
<b>Time</b>	8:00 – 17:00	8:00 – 17:00	8:00 – 17:00	8:00 – 17:00	8:00 – 17:00