

HEC 7/8 Maintenance Training Level 4

COURSE DESCRIPTION



Course goal:

The participants acquire in-depth knowledge to overhaul Generator Circuit Breakers from the HEC 7/8 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 breaker system of the HEC 7/8 family
- Handling of the components with the crane
- Perform a complete overhaul on the arcing chamber, disconnector, and earthing switches

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:

- Electrical or mechanical degree.
- Ability to read technical drawings is required!
- Must have passed GCB certification level 3 (commissioning & diagnostic)
- Certificate holder Level 4, of at least one SF6 breaker
- Fluent in English
- SF6 handling certificate

Topics

- Removing the SF6 gas from the arcing chambers
- Disassembling and assembling the arcing chamber
- Disassembling and assembling the disconnector
- Disassembling and assembling earthing switch
- Alignment of disconnector and GCB
- preparation of assembly drawings

This is a practical and theoretical training course.

Certification:

A confirmation will be issued after successful participation in this course, as part of the certification process. Within 24 months, an on-site assessment must be carried out along with a final review to complete certification.

Duration:

10 days

Enrolments:

Send your request to GIS-GCB_Training@hitachienergy.com

PREPARED		STATUS		SECURITY LEVEL	
2024-07-26	Manuel Engler	Approved		Public	
APPROVED		DOCUMENT KIND			
2024-07-26	Zsolia Fodor	Agenda			
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HEC 7/8 Maintenance Training Level 4					
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CH-Zurich-2657-Field Service		2GHE010001	B	en	2/3

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Course agenda:

	Day 1	Day 2	Day 3	Day 4	Day 5
Subject	Work preparation	Arcing chamber overhaul	Arcing chamber overhaul	Arcing chamber overhaul	Disconnecter overhaul
Topics	<div><div>❖</div>Health & Safety induction</div> <div><div>❖</div>Spert parts check and organization of workspace</div>	<div><div>❖</div>Disassembling arcing chamber</div>	<div><div>❖</div>Overhaul arcing chamber</div>	<div><div>❖</div>Overhaul arcing chamber</div>	<div><div>❖</div>Disassembling disconnecter</div>
Time	9:00 – 16:00	9:00 – 16:00	9:00 – 16:00	9:00 – 16:00	9:00 – 16:00

	Day 6	Day 7	Day 8	Day 9	Day 10
Subject	Disconnecter overhaul	Earthing switch overhaul	Timing test	Timing test	Clean up
Topics	<div><div>❖</div>Assembling disconnecter</div>	<div><div>❖</div>Disassembling/ assembling earthing switch</div>	<div><div>❖</div>Timing test with arcing chamber adjustment</div>	<div><div>❖</div>Timing test with arcing chamber adjustment</div>	<div><div>❖</div>Clean up and clear workspace</div>
Time	9:00 – 16:00	9:00 – 16:00	9:00 – 16:00	9:00 – 16:00	9:00 – 16:00