

# Operating Mechanisms HMB-4 /-8 Maintenance Training Level 4 COURSE DESCRIPTION



## Course goal:

The course is an in-depth training and conveys profound knowledge on the overhaul of HMB-4 /-8, operating mechanisms.

# Participant profile:

Field service engineer for Hitachi, 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 diagrams is required
- Electrical skills
- Mechanical skills
- Attended the local required health & safety
- Training
- First aid course with certificate
- Own PSE
- Computer with admin rights

# Main learning objectives:

- Working principle and troubleshooting
- Exchanging modules
- Repair and overhaul of the complete mecha-
- Adjustment of spring travel switch and auxiliary switch

# This is a theoretical and practical training course.

## Certification:

A certificate, valid for 1 year 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 receive a certificate, valid for another 3 years.

## **Duration:**

5 days

## **Enrolments:**

Send your request to

GIS-GCB\_Training@hitachienergy.com

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APPROVED		DOCUMENT KIND					
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Operating Mechanisms HMB-4 /-8 Maintenance Training Level 4							
OWNING ORGANIZATION		DOCUMENT ID	REV.	LANG.	PAGE		
CH-Zurich-2657-Field Service		2GHE004265	В	en	2/4		
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Day	Subject	Location
	Welcome / Introduction to Hitachi Energy Switzerland	
	<ul> <li>Training Introduction / Presentation</li> <li>Safety Induction</li> <li>Certification Process</li> <li>Preparation of workspace</li> </ul>	
	Operating mechanism safety instruction	
	Basic training	
1	<ul> <li>Working principle of the system</li> <li>Detail view of the system parts:         <ul> <li>Functions of spring limit switch</li> <li>Functions of auxiliary switch</li> <li>Checklist for failure investigation</li> <li>Pilot valves</li> <li>Overflow valve</li> <li>Interlocking pin</li> <li>Working module / piston rod and P plug</li> <li>Springs</li> <li>Pump module and motor / Pump element</li> <li>Control module and pilot valves</li> <li>Storage module</li> <li>Oil filling and evacuation</li> </ul> </li> </ul>	Classroom
2	<ul> <li>Hands-on training</li> <li>❖ Disassembly of entire HMB-4 drive</li> <li>❖ Focus on individual system parts</li> </ul>	Training area
	Hands-on training	
3	<ul> <li>Reassembly of entire HMB-4 drive</li> <li>Focus on individual system parts</li> </ul>	Training area
	Hands-on training	
4	<ul> <li>Disassembly of entire HMB-4 drive</li> <li>Overhaul Training         <ul> <li>Exchange of sealings</li> <li>Special tool handling</li> <li>Oil exchange</li> </ul> </li> </ul>	Training area

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# Day Subject Location Hands-on training Re-assembly of entire HMB-4 drive o Spring travel switch installation and adjustment o Auxiliary switch adjustment Classroom Training area Re-commissioning of HMB-4 drive: Tests and Measurements 5 Troubleshooting tips **Exam Final Discussion Farewell**

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