

ELK-04 Overhaul Training Level 4 After Sales Service Engineer

TRAINING CENTER SWITZERLAND - COURSE DESCRIPTION

PREPARED BY	STATUS	SECURITY LEVEL			
Jenisija Karunakaran	Approved	Internal			
APPROVED BY	APPROVAL DATE				
Zsofia Fodor	2022-11-18				
OWNER	DOCUMENT KIND				
Head of Training Center	Agenda				
TITLE					
GIS-L4-ELK04 145_170-Training Agenda					
OWNING ORGANIZATION	DOCUMENT ID	REV.	LANG.	PAGE	
CH-Zurich-2657-Field Service	2GHE004273	Α	en	1/4	
Hitachi Energy © 2022 Hitachi Energy. All rights reserved.					



Course goal:

The course is an in-depth training and conveys profound knowledge on the overhaul of ELK-04, including combined disconnector-, earthing switches and fast acting earthing switches and their operating mechanisms.

Prerequisites:

- SF6-Gas-handling course with certificate
- Heavy load course with certificate
- Good English skills (written and spoken)
- Ability to read wiring diagrams is required
- On-site experience on GIS Installation and/or Commissioning
- Attended the local required Health & Safety Training
- First aid course with certificate
- Own PSE
- Computer with admin rights

Main learning objectives:

- Removal and reinstallation of HMB operating mechanism
- · Exchange of rotary movement bushing
- Inspection of combined disconnector earthing switch
- Exchange of rotary movement bushing
- · Overhaul of fast acting earthing switch

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 a 12 months period, 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

STATUS	SECURITY LEVEL	DOCUMENT ID	REV.	LANG.	PAGE
Approved	Internal	2GHE004273	Α	en	2/4
© 2022 Litachi Energy, All rights recogned					

Day	Subject	Location
	Welcome / Introduction to Hitachi Energy Switzerland	
	Training Introduction / Presentation	
	 Safety Induction 	
	 Certification Process 	
	 Hitachi Energy GIS-Product Portfolio 	ω _o
1	Electromagnetic induction when working on high voltage switchgear	Classroom
	Introduction to product main components	
	 Circuit breaker type self-blast interrupter chamber 	
	 Disconnector earthing switch 	
	Fast acting earthing switch	
	Practical training	Classroom Training field
2	Removal of HMB operating mechanism	assroon Fraining field
	 Opening of circuit breaker compartment 	Slass Tra
	 Dismounting of the arcing chambers 	O
	Practical training	gu Bo
3	 Dismounting of the arcing chambers 	assroon raining field
	 Exchange of rotary movement bushing 	Classroom Training field
	Practical training	mo bi
4	Re-installation of arcing chambers	assroon raining field
-	 Closing circuit breaker compartment 	Classroom Training field
	Practical training	
_	 Adjustment and re-installation of operating mechanism 	oom y field
5	Week review	Classroom Fraining field
	Q and A session	-

STATUS	SECURITY LEVEL	DOCUMENT ID	REV.	LANG.	PAGE
Approved	Internal	2GHE004273	Α	en	3/4
© 2022 Hitachi Energy, All rights reserved					

6	Operating mechanism safety information and instruction Practical training Oil filling of HMB Conditioning of low-pressure reservoir Manual charging of HMB	Classroom Training field
7	Practical training Inspection of combined disconnector and earthing switch Inspection / exchange of transmission box (170kV) Exchange of dynamic stressed gaskets 	Classroom Training field
8	Practical training ❖ Exchange of cable end module ❖ Exchange of rupture disc and desiccant	Classroom Training field
9	Practical training ❖ Removal of fast acting earthing switch ❖ Exchange of contacts on FAES ❖ Re-installation of FAES	Classroom Training field
10	Field service documentation Exam Final Discussion Farewell	Classroom Training field

All recommissioning topics will be trained in a separate training.

STATUS	SECURITY LEVEL	DOCUMENT ID	REV.	LANG.	PAGE
Approved	Internal	2GHE004273	Α	en	4/4
© 2022 Hitachi Energy, All rights reserved					