

Overhaul & Repairs Training

Level 4

LTB-L4-LTBD1_E1 with BLK222_FSA1 & MD -Training center

PREPARED BY Adriana Rodriguez	STATUS Approved	SECURITY LEVEL Internal		
APPROVED BY Hakan Enback	APPROVAL DATE 2023-06-28			
OWNER Head of Training Function	DOCUMENT KIND Agenda			
TITLE LTB-L4-LTB D1_E1 with BLK_FSA1 & MD - Training Agenda				
OWNING ORGANIZATION SE-Ludvika-2657-Field Service Hitachi Energy	DOCUMENT ID 2GHE000593	REV. A	LANG. en	PAGE 1/3
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Course goal:

This training aims at how to perform LTB Overhaul, LTB balancing, advance troubleshooting and advance repairs.

Main learning objectives:

- ❖ Understand the functions of LTB CB'S.
- ❖ Perform advanced troubleshooting and advanced repairs.
- ❖ Perform LTB balancing and complete overhaul.
- ❖ Perform overhaul of LTB CB's.

Prerequisites:

- ❖ Level 3 certification

Topics:

- ❖ Introduction
- ❖ Health & safety
- ❖ Product description & functionality
- ❖ Overhaul & gas handling
- ❖ Circuit diagram & connection points
- ❖ LTB Balancing
- ❖ LTB Balancing & Advanced troubleshooting

Assembly steps and procedures:

- ❖ LTB Disassembly
- ❖ LTB Overhaul
- ❖ LTB balancing & advanced troubleshooting.
- ❖ Advanced repairs.

This is a theoretical and practical training course.

LTBD1_E1 with BLK222_FSA1 & MD

Certification:

Follows the Hitachi Energy guidelines for certification according to respective certification policy.

Confirmation of attendance will be issued on training completion.

Duration:

5 days

Enrolments:

Send your request to

se-ltb-Training@hitachienergy.com

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Day	Subject	Location
1	Welcome / Introduction to Hitachi Energy LTB Product Portfolio	Classroom
	<ul style="list-style-type: none"> ❖ Training Introduction / Presentation (Short introduction of the presenter, attendees, the curriculum, training, and specific circuit breaker type). ❖ Safety Induction (The participant should be acquainted and understand local and site-specific rules & legislation and comply with them). ❖ Certification Process. ❖ Hitachi Energy Sweden LTB Product Portfolio. 	
2	Maintenance & overhaul	Classroom / Training center
	<ul style="list-style-type: none"> ❖ How to perform maintenance category B & C/D (Overhaul) (Best practice) ❖ LTB balancing & advanced troubleshooting. 	
3	Advance repairs	Classroom
	<ul style="list-style-type: none"> ❖ How to perform advanced repairs for the Circuit breaker & Operating mechanism ❖ LTB disassembly 	
4	SF6 Handling & environmental aspects.	Classroom
	<ul style="list-style-type: none"> ❖ SF6 Gas handling and the impact of the greenhouse effect. ❖ LTB overhaul 	
5	How to read and understand circuit diagram/s	Classroom
	<ul style="list-style-type: none"> ❖ Circuit diagram reading & troubleshooting. ❖ LTB balancing & advanced troubleshooting. 	
5	Testing & balancing	/ Classroom / Training center
	<ul style="list-style-type: none"> ❖ Introduction for transducer testing, how to adjust speeds, timing overtravel, etc. accordingly to testing standards. ❖ Testing (Maintenance category B) (With transducer) ❖ Testing after overhaul category C/D ❖ Circuit breaker balancing (Transducer & settings) 	
	Week Review	
	Q and A session	

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