



# Operation & Maintenance

## Level 2

LTB-L2-HPL-B&LTB-E-with-BLG1002A-Training Agenda

PREPARED BY	STATUS	SECURITY LEVEL		
	Approved	Internal		
APPROVED BY	APPROVAL DATE			
Hakan Enback	2023-06-28			
OWNER	DOCUMENT KIND			
Head of Training Function	Agenda			
TITLE				
LTB-L2-HPL B & LTB E with BLG 1002A - Training Agenda				
OWNING ORGANIZATION	DOCUMENT ID	REV.	LANG.	PAGE
SE-Ludvika-2657-Field Service	2GHE000594	A	en	1/3
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**Course goal:**

This training aims at how to perform basic troubleshooting, basic analytics & basic repairs.

**Main learning objectives:**

- ❖ Understand design principles and critical elements.
- ❖ Comprehend the elements of troubleshooting, operation and maintenance of HV circuit breakers.

**Prerequisites:**

- ❖ Complete LTB level 0 training
- ❖ Complete HE HSE fundamental training.

**Topics:**

- ❖ Health & safety
- ❖ Basic maintenance
- ❖ Electrical schematics & connections points
- ❖ Troubleshooting & diagnosis.
- ❖ Q&A

**This is a theoretical and practical training course.**  
(LTB HPL B & LTB E with BLG 1002A)

**Certification:**

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

Confirmation of attendance will be issued on training completion.

**Duration:**

1 (one) day

**Enrollments:**

Send your request to

[se-ltb-Training@hitachienergy.com](mailto:se-ltb-Training@hitachienergy.com)

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Day	Subject	Location
	<p><b>Welcome / Introduction to Hitachi Energy LTB- Product portfolio.</b></p> <ul style="list-style-type: none"> <li>❖ Training Introduction / Presentation (Short introduction of the presenter, attendees, the curriculum, training, and specific circuit breaker type)</li> <li>❖ Safety Induction (The participant should be acquainted and understand local and site-specific rules &amp; legislation and comply with them)</li> <li>❖ Certification Process</li> </ul> <p><b>Health and safety (Theoretical)</b></p> <ul style="list-style-type: none"> <li>❖ Local safety and legislations</li> <li>❖ The participant should be acquainted and understand local and site-specific rules &amp; legislation and comply with them.</li> <li>❖ Hitachi Energy product specific HSE</li> </ul> <p><b>Installation &amp; pre-commissioning validation</b></p> <ul style="list-style-type: none"> <li>❖ Installation check according to product manual</li> <li>❖ Pre-commissioning protocol validation</li> </ul> <p><b>1 Basic maintenance &amp; component replacements</b></p> <ul style="list-style-type: none"> <li>❖ Basic component replacement</li> <li>❖ Maintenance category: A, according to product manual</li> </ul> <p><b>Circuit breaker electrical schematics &amp; connections points</b></p> <ul style="list-style-type: none"> <li>❖ Reading of electrical schematics &amp; diagrams</li> <li>❖ Connection points for test equipment</li> </ul> <p><b>Troubleshooting &amp; diagnosis</b></p> <ul style="list-style-type: none"> <li>❖ Electrical &amp; mechanical troubleshooting</li> <li>❖ Circuit breaker diagnostic testing</li> <li>❖ Diagnosis outcome</li> </ul> <p><b>Controlled switching &amp; monitoring system basics.</b></p> <ul style="list-style-type: none"> <li>❖ Benefits &amp; use cases for PWC600 &amp; MSM</li> </ul>	Classroom/ Training center
	<p><b>Day Review</b></p> <p><b>Q and A session</b></p>	

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