

GIS ELK-04C/145 I&C Training Level 4 Field Service Engineer Training

TRAINING CENTER CHINA - COURSE DESCRIPTION

PREPARED BY	STATUS	SECURITY LEVEL			
ZhiWu Wu	Approved	Internal			
APPROVED BY	APPROVAL DATE				
Sam-QingZhong Shen	2022-12-28				
OWNER	DOCUMENT KIND				
Head of Training Function	Agenda				
TITLE					
GIS ELK-04C/145 I&C Training					
OWNING ORGANIZATION	DOCUMENT ID	REV.	LANG.	PAGE	
2657-Service CN	2GHE004112	В	en	1/4	
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Course goal:

To acquire:

- basic knowledge about SP circuit breaker overhaul
- * TK combined disconnector earthing switch overhaul
- Fast act earthing switch overhaul

The course covers GIS type ELK-04C/145kV

Main learning objectives:

- Safety introduction:
 - training center risks
 - safety requirements when working on electrical systems >1kV
- Practical training on SP circuit breaker
- Removal and reinstallation of MSD operating mechanism
- Re-coating of linear movement bushing
- Resistance measurement of arcing chambers
- overhaul of combined disconnector earthing switch
- overhaul of DES operating mechanism
- overhaul of FES fast acting earthing switch
- writing an overhaul report

Prerequisites:

- Good English skills (written and spoken)
- Attended the local required
- Health & Safety Training

Course type:

The training consists of both classroom lessons and hands-on practical sessions

This is a theoretical and practical training course.

Certification:

This training is part of the Field Service Engineer Certification program and is prerequisite to obtain Level 4 certification on:

"ELK-04C/145"

A certificate will be issued if the certification requirements are fulfilled as described in the Global PGHV- GIS certification process (1HC0127705)

Duration:

10 days

Enrolments:

Send your request to cn-hvtraining@hitachienergy.com

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Day	Subject	Location
	Welcome and introduction to training center	
	Health & Safety rules for PGHV-CN Training Centre visitors	ш
1	Electromagnetic induction when working on high voltage switchgear	Classroom
	Introduction to product main components ❖ Circuit breaker type SP	G
	Practical training	ple
2	 Removal of MSD operating mechanism Opening of circuit breaker Dismounting of the arcing chambers * 	Training Field
	Practical training	plej
3	 overhauling the arcing chambers re-coating of the linear movement bushing re-assembling of SP circuit breaker 	Training Field
	Practical training	ᄝ
4	 re-assembling of SP circuit breaker resistance measurement on arcing chambers re-installation of arcing chambers 	Training Field
	Practical training	
	 adjustment and re-installation of operating mechanism 	field
5	week review	Training field
	Q and A session	F

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6	Practical Training ❖ removal and re-installation of SP arcing chamber Note: an overhaul of the SP arcing chamber is not foreseen	Training field
7	Practical Training ❖ removal of DES operating mechanisms ❖ overhaul of module combined disconnector and earthing switch	Training field
8	Practical Training	Training field
9	Practical Training	Training field
10	Final tests Field service documentation Final Q and A session	Classroom

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