

PASS_M0X-L4-M00_72.5kV_100kV & M0_145kV_170kV & M0S_245kV -Training Agenda

PASS PSC- Technical Training

PREPARED BY Davide Rossato	STATUS Approved	SECURITY LEVEL Internal		
APPROVED BY Diego Gaggero	APPROVAL DATE 2023-01-25			
OWNER Davide Rossato	DOCUMENT KIND Agenda			
TITLE PASS_M0X-L4-M00_72.5kV_100kV & M0_145kV_170kV & M0S_245kV -Training Agenda				
OWNING ORGANIZATION IT-Lodi-2657-Field Service Hitachi Energy Italy S.p.A	DOCUMENT ID 2GHE008495	REV. A	LANG. en	PAGE 1/4

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Course goal:

This training's primary objective is to ensure a safe and effective operating process that focuses primarily upon the Overhaul aspects of Hybrid PASS (Plug and Switch System).

Main learning objectives:

- Understanding of Detailed component assembly and sub-assembly
- How to carryout Repair, Replacement, Overhaul in the different components
- Theoretical and practical knowledge of circuit-breaker and relevant operating drive's
- Theoretical and practical knowledge of Disconnectors mechanism and relevant operating drive.
- comprehensive understanding of handling SF₆ gas.
- Foundational knowledge about Maintenance inspection and diagnostic aspects
- Understanding of how to conduct on-site Overhauling, maintaining H&S aspects, and reporting to the PSC (Product Service center).

Prerequisites:

- Training in electrical and mechanical subjects
- Professional experience
- A certification that allows to perform an activity where it is necessary to work on electrical system, both dead and live working at LV or to work in the vicinity of HV systems.
- SF₆ certification (relevant in EU)
- Sufficient English language skills
- PPE (Personal Protective Equipment)
- HSE (Health Safety and Environment) and PICW (Person in charge of work) training done
- Heavy loads training
- First aid/emergency

Topics:

- Training and Certification Process
- Hybrid PASS Portfolio
- PASS Overall Assembly
- Theoretical Part of Functionality, Setting, Troubleshooting and Overhauling of Circuit breaker and disconnector drive mechanism.

- Practical Part of Functionality, Setting, Troubleshooting and Overhauling of Circuit breaker and disconnector drive mechanism.
- Functionality & 3 step for setting Disconnectors and relevant drive mechanism Theoretical Part
- Functionality & 3 step for setting Disconnectors and relevant drive mechanism Practical Part
- SF₆ Handling
- Maintenance concept
- Diagnostic activities: Theoretical Part
- Overhauling (when, where & how) – Practical Part
- Tool, special tool and Service Documents requirement
- Re-commissioning & Reporting – Practical Part

This is a theoretical and practical training.

Certification:

This is a certification course. A certificate will be issued after the successful completion of the On-site Overhauling activity which will be conducted by the Training Center.

Duration:

One Weeks

Enrolments:

- FSE's can fill the details in the form given in the below link for enrolment

https://forms.office.com/Pages/ResponsePage.aspx?id=2eYxe-Gzc0Uyexh3CtBMxlepgS_A8TdVFjOFVnAownc-tUMFJHWEpJSEJOODVOTExCVjhDM1dWRkNQNS4u

And send your request to

it-training-psc_lodi@hitachienergy.com

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Day	Subject	Location
1	Training and Certification process presentation	Lodi Factory
	<ul style="list-style-type: none"> • Introduction to Basic Trainings • Certification Concept • Different levels of Certification • Certification Process 	
	Hybrid PASS Portfolio presentation	
	<ul style="list-style-type: none"> • Introduction to Hybrid high voltage switchgear • Product Description • PASS Types and Families • Additional Features • Commitment 	
2	Hybrid PASS Maintenance	Lodi Factory
	<ul style="list-style-type: none"> • Inspections • Maintenance • Repair • Replace • Overhaul 	
	Circuit Breaker and relevant drive mechanism	
	<ul style="list-style-type: none"> • Circuit Breaker • Drive mechanism • Maintenance • Repair – Replacement • Overhauling • Setting and Troubleshooting of the equipment 	
3	Disconnectors and relevant drive mechanism	Lodi Factory
	<ul style="list-style-type: none"> • Disconnecter • Drive mechanism • Maintenance • Repair - Replacement • Overhauling • Setting and Troubleshooting of the equipment 	

Day	Subject	Location
4	Maintenance, Revision, Replace, Overhauling	Lodi Factory
	<ul style="list-style-type: none"> When to conduct Maintenance, Revision, Replace and Overhauling Where to perform Maintenance, Revision, Replace and Overhauling How to execute Maintenance, Revision, Replace and Overhauling 	
5	Tool, Special tools, Service Documents	Lodi Factory
	<ul style="list-style-type: none"> Tool: List of required tools Special tools: List of tools and how to use it Service documents: Requirement to complete the job 	
	Conclusion	
	<ul style="list-style-type: none"> Sharing confirmation of attendance along with the current status of Authorization to perform on-site activity (supervised by a Level 4 assessor) 	

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