

training



DVCAS Secondary GIS type Switchgear



Installation, Commissioning & Maintenance

Duration:

- 2 days

Contents:

- DVCAS General presentation
 - Main Characteristics
 - Circuit Breaker
 - 3 positions Switch disconnecter
 - Recommended combinations
 - Relay & CT
- Operations & Interlocks with DVCAS cubicles
- Manipulation, Assembly & Commissioning of DVCAS cubicles and Windfarm energization
- Maintenance of DVCAS cubicles:
 - DVCAS switchgear assembly and disassembly
 - SF6 filling & Pressure gauge replacement
 - Motorization of a "I" and a "D" module

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1st Day

Timing	Subjects	Responsible
8 h 30 – 8 h 45	Welcome of participants	Pedro Iribar
8 h 45 – 10 h 15	DVCAS General presentation Main Characteristics Circuit Breaker 3 position disconnecter Recommended combinations Relay & CT	Pedro Iribar
10 h 15 – 10 h 45	Operations & interlocks of DVCAS (Video – animation)	Pedro Iribar
10 h 45 – 11 h 00	Coffee break	
11 h 00 – 12 h 45	Assembly and Commissioning of DVCAS Transport & Storage Mechanical assembly Wind Farm energize (Video – animation)	I. Artaraz
12 h 45– 14 h 00	Lunch	
14 h 00 – 15 h 00	Maintenance of DVCAS cubicles Bill of materials Detailed diagrams SF6 control Disconnectors Circuit Breaker Cubicles assembly and disassembly (Video-animation) 24h After-sales Service	Pedro Iribar
15 h 00 – 16 h 00	Maintenance of DVCAS cubicles Interlocks adjustment	I. Artaraz
16 h 00 – 17 h 00	Maintenance of DVCAS cubicles Locks replacement Pressure gauge replacement SF6 Filling & Control	I. Artaraz
17 h 00 – 18 h 00	Maintenance of DVCAS cubicles Operating mechanism replacement of a “I” module	I. Artaraz

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2nd Day

Timing	Subjects	Responsible
8 h 30 – 10 h 45	Motorization of a “I” module	I.Artaraz
10 h 45 – 11 h 00	Coffee break	
11 h 00 – 13 h 00	Motorization of a “D” module	I.Artaraz
13 h 00– 14 h 30	Lunch	
14 h 30 – 15 h 00	VIP 300 & VIP 35 wiring	I.Artaraz
15 h 00 – 17 h 15	DVCAS switchgear assembly Cubicles assembly and disassembly Site tests	I.Artaraz
17 h 15 – 17 h 30	Conclusions & Training closure	P. Iribar