GE VERNOVA

DRIVES

SD7 VSD with PECe system

Application: MV Induction/Synchronous motor

Training Code	EN SD7 B1
Max number of trainees	6
Price	Contact us

Purpose

- Familiarize yourself with power and control system architectures
- Understand, know the SD7000 principles applied to the AC motor control & know the PECe control system using P80i tool
- Operate, maintain and troubleshoot the system.

Target audience

- Operator personnel / Management personnel / Maintenance personnel / Engineering personnel.

Prerequisite

- Experience or knowledge in Power Conversion products or/ and systems
- Experience or knowledge in VSD & Control Systems.

Location: Global Technical Learning Center Villebon

Duration: 5 days (35 hours)

Practical Exercises: 80 %

- Use of an SD7000 PECe application through the P80i tool & SD7000 piloting an AC motor
- Maintenance & Troubleshooting
- Replacement of parts.

Training Equipment

- Use of SD7 mock-ups & dedicated tools
- Converter cooling unit.

Training Equipment

- Quiz & practical exercises.

Trainee's Documentation

- Specific customer documentation
- Customized training material
- Certificate of attendance.

Content

ELECTROTECHNICAL THEORETICAL (transformer/drive/rotating machines)

SD7000 OPERATING PRINCIPLE

- Converter structure & DC Bus
- Pulsed or synchronous running modes
- Analogy between drawing & equipment

MV7000 PECe DRIVE CONTROL & PROCESS AUTOMATION

- MV7000 PECe system & Main CPU (RXi/B&R/ VME)
- Power Interface Board PIBe
- EtherCAT network & P80i & PERTU

SD7000 APPLICATION

- Application structure & Control sequences

MAINTENANCE PROCEDURES

- Replacement of Remote IO modules, network switches
- Application reloading (P80i software)
- Focus on CCU parts

TROUBLESHOOTING WITH SD7000 TRAINING MOCK-UP

- Configuration and use of commands
- Alarms & Faults
- Use of P80i tool (dynamic mode) & PERTU tool (recording & THL modes)