COURSE DESCRIPTION

G860 PCS6000
Operation & Maintenance

Course goal
The goal of the course is to introduce and instruct the service and operation engineer to the PCS6000 Product Family. To allow them to learn in a safe and instructive environment the techniques required to carry out the correct procedure in operating and maintaining the PCS6000 frequency converter.

Main learning objectives
- Upon completion of this course, the participants will be able to:
  - Describe the service training and authorization program
  - Identify the PCS6000 configurations
  - Explain the converter components and functionality
  - Explain the operational sequences (control & emergency)
  - Carry out standard maintenance
  - Verify proper functionality of certain components
  - Exchange standard parts
  - Connect to IPC and use the software tools
  - Carry out basic troubleshooting using service software and manuals

Participant profile
Electricians, technicians and engineers who operate, maintain or troubleshoot PCS6000. It is also a prerequisite for future commissioning & service engineers.

Prerequisites
- Electrical engineering knowledge & experience
- Laptop

Topics
- System description
- PCS6000 product overview
- Control hardware
- Power hardware
- Water Cooling Unit
- Maintenance
- Control sequences
- Troubleshooting
- Practical exercises
- Service processes

Follow-up training
- EXPERT training for commissioning and troubleshooting of PCS6000

Course type
This is a face to face class room training with maximum 6 participants.

Learning methods and tools
This is an instructor led course with lectures and demonstrations. For maximum effectiveness it’s based on a good balance between theoretical training and practical exercises with training equipment.
Duration 5 days

To register:
Please apply online (signup required):
ABB MyLearning/G860
Custom-tailored training courses or standard training at additional course dates are available on request.
Please note: The course is only carried out if at least 4 participants have been booked.

Course outline

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<th>DAY 2</th>
<th>DAY 3</th>
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<tr>
<td>—Course overview</td>
<td>—Water Cooling Unit</td>
<td>—Maintenance of Power Unit, DC-Link Unit, Filter Unit, etc.</td>
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<tr>
<td>—Product overview</td>
<td>—Generator Breaker Unit</td>
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<tr>
<td>—System description</td>
<td>—Documentation</td>
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<td>—Control hardware</td>
<td>—Hardware and fieldbus signals</td>
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<tr>
<td>—Power hardware</td>
<td>—Maintenance of Control and WCU</td>
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<td>—Hands-on: Exchange diodes and IGCT's</td>
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<th>DAY 4</th>
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<tr>
<td>—Control sequences</td>
<td>—Trouble-shooting cases</td>
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<td>—Emergency mode sequences</td>
<td>—Service processes</td>
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<td>—Troubleshooting</td>
<td>—Final exam</td>
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<td>—Factory visit</td>
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<td>—Hands-on: Usage of Service HMI</td>
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Classroom training

Hands-on training