

## COURSE DESCRIPTION

# G860 PCS6000 Wind Installation & Commissioning

### 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:

- Identify the PCS6000 configurations
- Explain the converter components and functionality
- Carry out standard maintenance
- Verify proper functionality of certain components
- Exchange standard parts
- Connect to IPC and use the SW tools
- Carry out basic troubleshooting using service software and manuals

### Participant profile

Electricians, technicians, and engineers who operate, maintain or troubleshoot PCS6000.

### Prerequisites

- Electrical engineering knowledge & experience
- Laptop

### Topics

- System description
- PCS6000 product overview
- Control & Power hardware
- Water Cooling Unit
- Maintenance

- Troubleshooting
- Software manipulations

### Course type

This is a face to face classroom training with maximum 8 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

4 days

### To register:

Please apply online ([signup](#) required):  
[Motion Upskill/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

DAY 1	DAY 2
<ul style="list-style-type: none"> <li>— Welcome, course goals and schedule</li> <li>— Introduction to PCS6000</li> <li>— Safety instructions for training unit</li> <li>— Hardware description</li> <li>— Hands-on: <ul style="list-style-type: none"> <li>• Operation of the converter</li> <li>• Demonstration of control sequences</li> </ul> </li> <li>— Exercise: Reading electrical circuit diagrams</li> </ul>	<ul style="list-style-type: none"> <li>— Converter components and functionality in detail</li> <li>— Introduction to manuals and reports (user manual, service manual, maintenance report, etc.)</li> <li>— Hands-on: Preventive maintenance <ul style="list-style-type: none"> <li>• Installation inspection</li> <li>• DC link checks</li> <li>• Functionality and security procedures</li> <li>• GRB and GDM/GBM checks</li> <li>• Insulation resistance test</li> </ul> </li> </ul>
DAY 3	DAY 4
<ul style="list-style-type: none"> <li>— Introduction to IPC and software tools</li> <li>— Hands-on: <ul style="list-style-type: none"> <li>• Software download to PEC</li> <li>• Change IP address of IPC</li> </ul> </li> <li>— Hands-on: <ul style="list-style-type: none"> <li>• Test IGCT's and diodes</li> <li>• Semiconductor replacement</li> </ul> </li> <li>— Factory visit</li> </ul>	<ul style="list-style-type: none"> <li>— Troubleshooting procedure</li> <li>— Hands-on: fault finding exercises</li> <li>— Warranty and failure reporting</li> <li>— Final exam</li> <li>— Course conclusion and feedback</li> </ul>



Classroom training



Hands-on training