COURSE DESCRIPTION

G861 PCS6000
Service & 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 commissioning and troubleshooting of the PCS6000 Product Family converters.

Main learning objectives
Upon completion of this course, the participants will be able to:
- Understand the most important operation & maintenance topics (repetition of G860)
- Operate the converter, energizing, de-energizing, start, stop & state changes
- Carry out commissioning (or hall test) of the PCS6000 converter system in the most efficient manner using the corresponding tools
- Carry out fault tracing work in the converter system using tools & documents in the most efficient manner
- Locate and replace faulty hardware components

Main learning objectives
Topics
- G860 O&M Training repetition
- Commissioning preparation
- Installation inspection
- Service software: ABB Commissioner, PEC Tool, IPC, PecTool
- Software upload
- Software parameterization
- Commissioning of cooling unit
- Introduction to MV measurements
- Hot commissioning: Sequences
- Documentation and reporting
- Troubleshooting
- Practical exercises
- Final exam

Participant profile
Service and commissioning engineers, testing and maintenance personnel from ABB or certified technical partners.

Prerequisites
- Completion of the G860 O&M training
- Electrical engineering knowledge and experience
- Laptop

Course type
This is a face to face classroom training with maximum 4 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.
To register:
Please apply online (signup required):
ABB MyLearning/G861
Additional course dates are available on request.

Duration
4 days

Please note: The course is only carried out if at least 4 participants have been booked.

Course outline

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<td>— Cold commissioning</td>
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<td>— System engineering aspects</td>
<td>• Software initialization</td>
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<td>— Safety instructions for training unit</td>
<td>• Cooling system</td>
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<td>— Commissioning preconditions</td>
<td>• Current transducer</td>
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<td>— Installation inspection</td>
<td>• Disconnector Module (GDM) / Generator Breaker (GEB)</td>
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<td>• Grid Breaker (GRB) control interface</td>
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<td>• Safety interface</td>
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<td>— Advanced Troubleshooting</td>
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<td>— Introduction to oscilloscope</td>
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<td>— Hot commissioning</td>
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<td>• Sequence OFF → Standby</td>
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Classroom training

Hands-on training