Course description

J715
PCS 6000 Frequency Converter
EXPERT Training – Service & Commissioning

Course goal
The goal of the course is to allow service engineers to learn in a safe and instructive environment the techniques required to carry out the correct procedure in commissioning and troubleshooting of the PCS 6000 product family converters.

Learning objectives
Upon completion of this course the participants will be able to:
- Understand the most important operation & maintenance topics (repetition of BASIC)
- Operate the converter, energizing, de-energizing, start, stop & state changes
- Upload / update of converter software and parameterization
- Carry out commissioning (or hall test) of the PCS 6000 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

Participant profile
This training is targeted at service and commissioning engineers, testing and maintenance personnel. ABB and serial OEM service personnel only.

Prerequisites
- Completion of the J710 BASIC Training
- Electrical engineering knowledge & experience
- Laptop recommended but not essential

Topics
- BASIC Training repetition
- Commissioning preparation
- Installation inspection
- Service software: ABB Commissioner, PEC Tool, IPC
- Software upload

- Software parameterization
- Commissioning of cooling unit
- Introduction to MV measurements
- Hot commissioning: Sequences
- Documentation and reporting
- Troubleshooting
- Practical exercises
- Final exam

Methods
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.

Follow-up training for EXPERT authorization
A) Attend commissioning (or hall test) for training
B) Lead commissioning (or hall test) as a test

Duration
5 days
Max. 4 participants
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### Course outline

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