ABB UNIVERSITY & ONLINE ACADEMY FOR EXCITATION AND SYNCHRONIZATION

J340 - UNITROL® P Service and Commissioning training

8 days, in-person training

Course goals

The course goal is to learn how to use the function programming language FUPLA 2 for re-programming of the UNITROL® P processing unit (PSR2) and to implement the modifications. Attendees will learn to use the documentation, install and use FUPLA to program and troubleshoot UNITROL® P automatic voltage regulators and excitation systems.

Main learning objectives

Upon completion of this course, attendees will:

- Know the design aspects of UNITROL® P
- Know the principle mode of operation of the devices
- Know the UNITROL® P user software and can read the FUPLA
- Be able to modify parameters and the logic control software
- Be able to put a UNITROL® P system into service

Participant profile(s)

- Project design engineers
- Commissioning engineers
- Testing and maintenance personnel

Prerequisites

- Basic knowledge in electronics and digital technique
- Basic personal computer knowledge

Delivery and learning methods

- Lectures
- Practical exercises with FUPLA using a PC and the table module
- Practical exercises using the UNITROL® P demo unit

Duration

- 8 days, Max. 8 participants

Registration

For registration or enquiries please visit: ABB University & Online Academy for Excitation - Enquiries

Notes

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Topics

PSR2 Processing Unit

- Operation principles
- Settings
- Memory organization, data formats
- Program control
- I/O device knowledge
- ARCnet coupler

Operating Program Language FUPLA2

- Installation
- PTS Shell (Programming tools)
  - Editor (Fup and state chart)
  - Configuration manager and code generator
  - Documenting
  - Debugger
- Program structure
  - Function blocks, function block library
  - Project design

UNITROL® P

- Channel configuration, design aspects
- Hardware, interfaces, ARCnet devices, converter electronics

AVR software of UNITROL® P

- Voltage regulator, limiters, PSS, superimposed regulators
- Channel and follow-up control
- Monitoring and protection
- Troubleshooting and commissioning aspect

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Contact us

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