Seminar No. 577

HPCi & Supervision Communication

Course Description:
Participants will get to know the HMI. They will learn how to install it, configure and use it. This training consists 60% practical exercises in which installation, programming, and test of an application will be trained. Therefore six workstations each equipped with an HMI pack will be used.

Learning Outcomes:
• Know the HMI functionalities

Prerequisites:
None

Participants:
Engineers and technicians from automation department

Duration:
5 days

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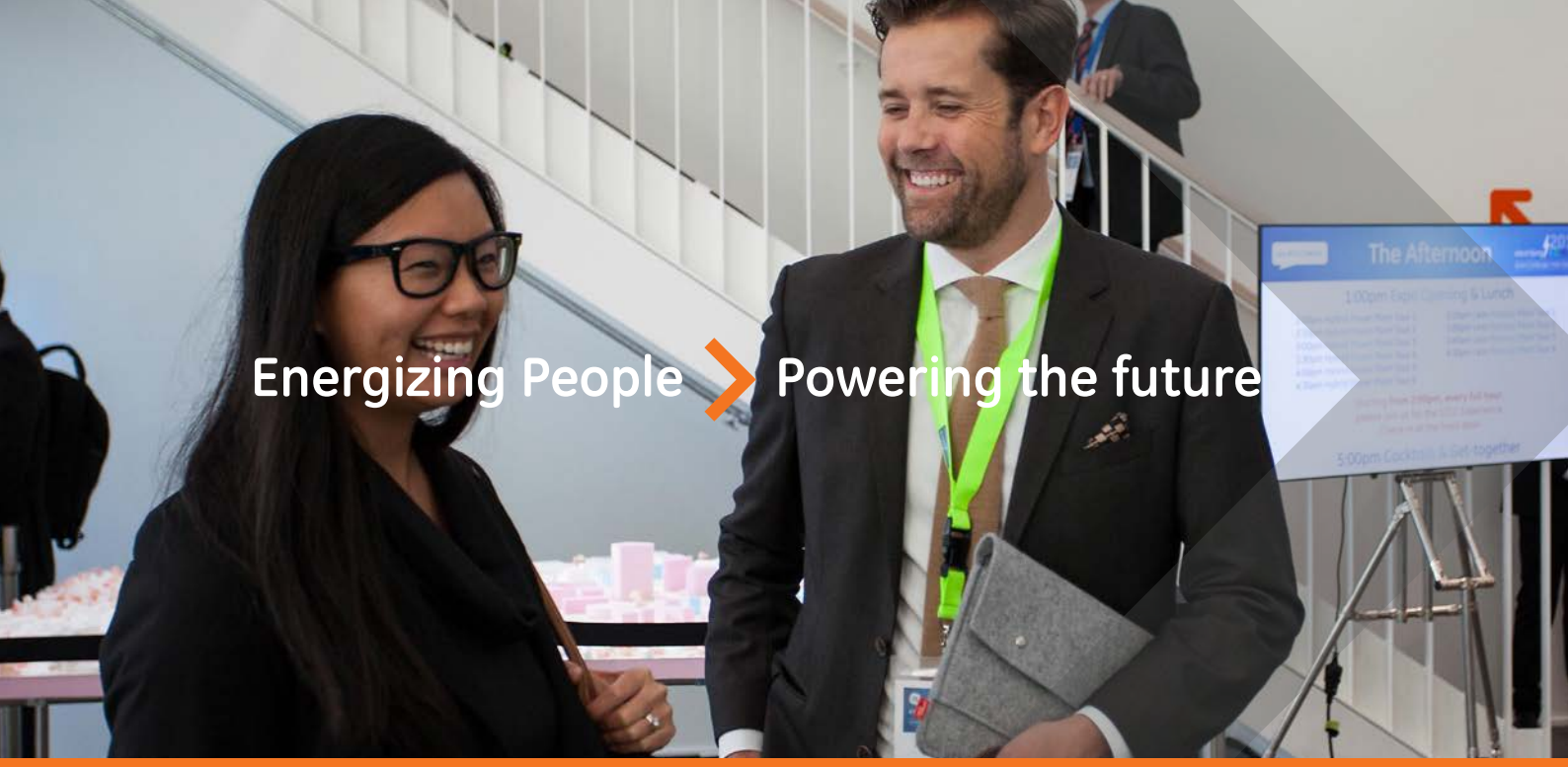

Drive Systems

Seminar No. 560

Digital control and regulation system HPCi with P80i

Course Description:
Participants will use a PC with a P80i graphic engineering interface to explore the HPCi control and regulation system. They will learn system structure, concepts, use, and engineering of the control and regulation system (open-loop and closed-loop). Additionally, participants will learn about commissioning and maintenance of control and regulation structures based on HPCi systems (VME and PCI), do applications, and perform backup and version control. They also will gain an understanding of the configuration and operation of an engineering network system (ENS) as well as how to connect HPCi systems to CC100 and EtherCAT.

Learning Outcomes:
Use of graphic engineering system P80i to implement and maintain solutions to complex control and regulation problems with HPCi configuration.

Prerequisites:
Basic knowledge of analog and digital control systems for automation projects in the field of industrial plants
Use of a PC

Participants:
Project engineers, operation personnel, commissioning and maintenance personnel

Duration:
Five days

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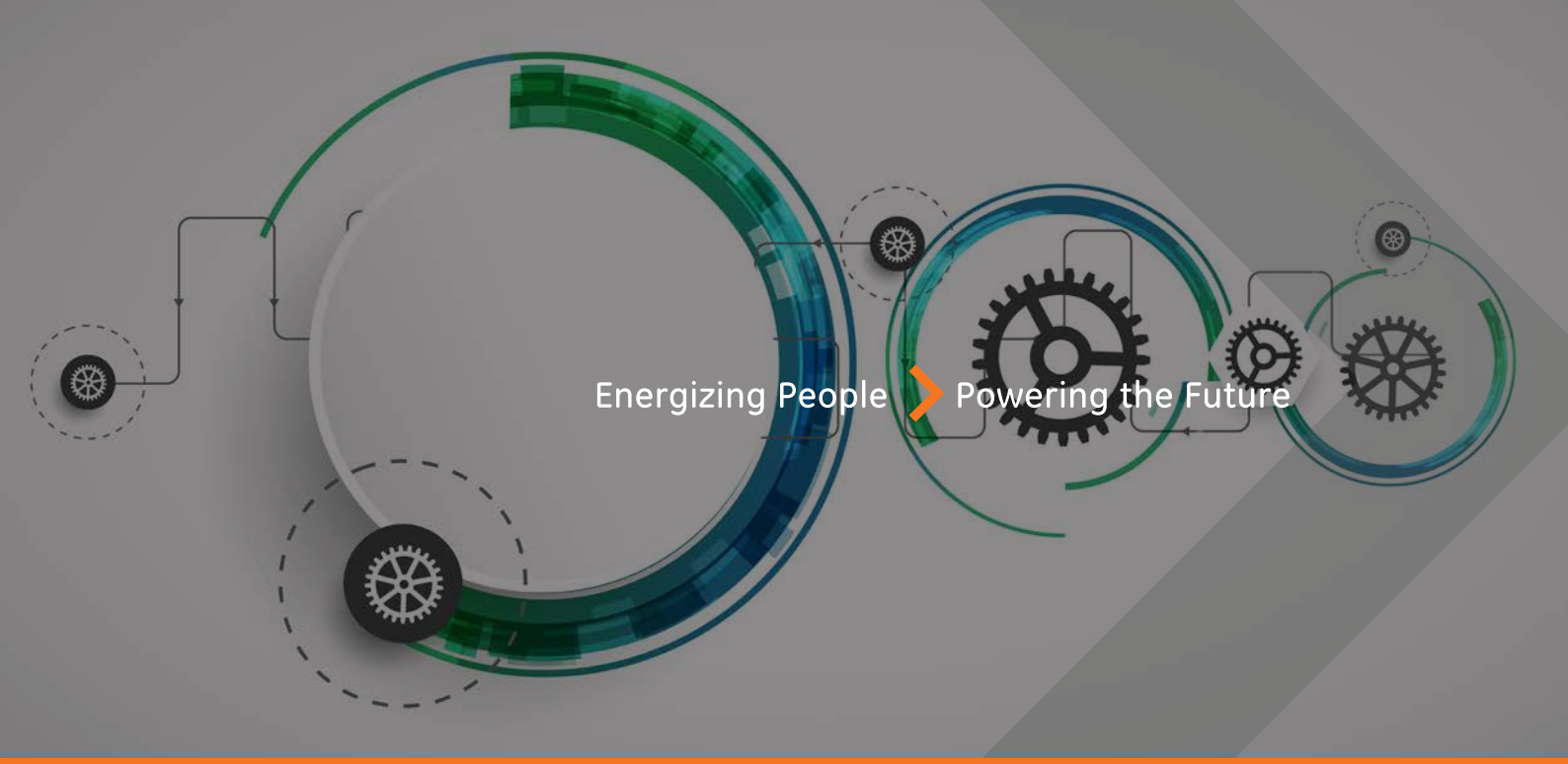

Drive Systems

Seminar No. 650

Engineering with P80-HMI

Course Description:
Interactive training with hands-on exercises. At the end of the course, participants will be able to:

- Understand the structure of P80-HMI
- Install and configure P80-HMI
- Develop objects, graphics and macros
- Use widgets and graphical objects
- Animate widgets and objects
- Set relevant parameters
- Design trends
- Configure alarm variables

Learning Outcomes:
Participants learn to design plant pictures and programs by using the editors of P80-HMI

Prerequisites:
Basic knowledge using a PC with a graphical surface and basic knowledge in PLS programming.

Participants:
Commissioning and service personnel, project engineers

Duration:
5 days

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Seminar No. 570

Drive Control Command PECe DC for direct current motors

Course Description:
After some theoretical reminders concerning DC motor, thyristor bridges, and DC motor control principles, the PECe DC control will be presented. Participants will learn about the application structure, test modes, and Perturbography. They will be able to applicate PECe DC. This training consists 50% practical exercises in which the configuration and use of commands as well as the use of P80i can be trained. Therefore two PECe DC mock-ups will be used.

Learning Outcomes:
- Understand the variable speed principles applied to the DC motor control
- Know the PECe control system for DC application using P80i
- Know and use the PECe dialog tools

Prerequisites:
P80i knowledge is recommended

Participants:
Engineers/technicians from maintenance, commissioning or engineering departments

Duration:
5 days

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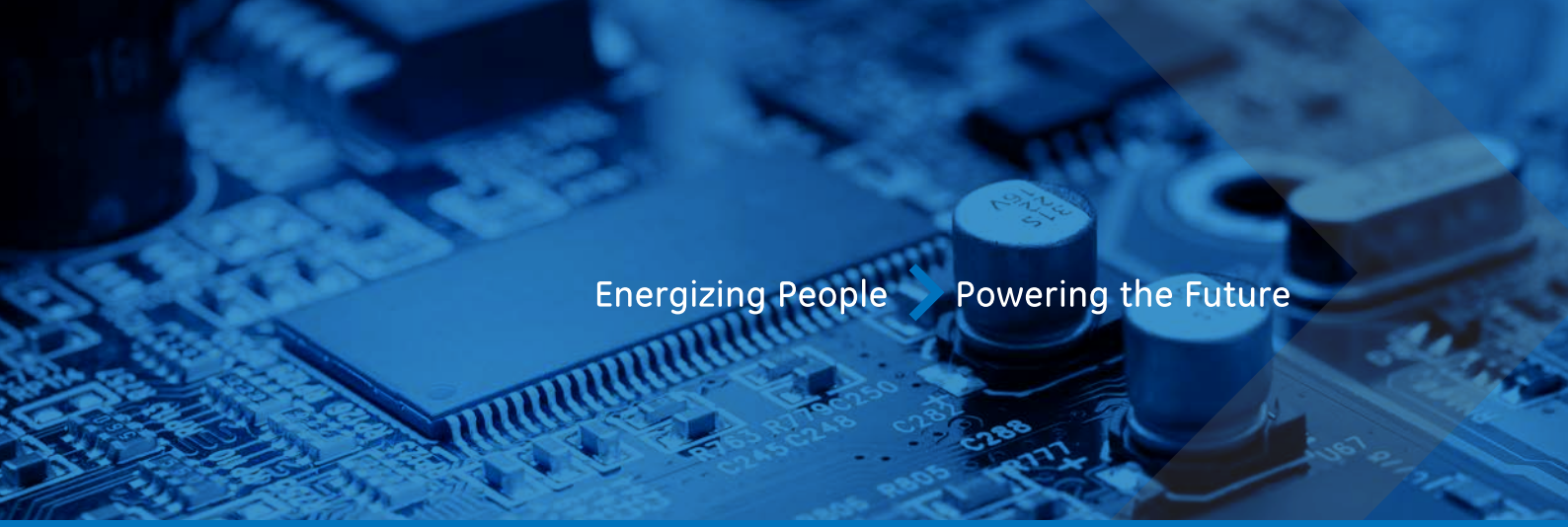

Seminar No. 572

Automation Products 80/HPCi Level 1

Course Description:
Participants will get to know the P80i/HPCi program. They will learn how to develop and edit P80i, so they are able to install and commission the P80i/HPCi. This training consists 70% practical exercises in which programming will be a topic. Graphic tools and the use of schematics, as well as functional checking, are also a part of the practical exercises. Therefore one HPCi-VME controller, two APC 260 controller and one Rxi controller will be used.

Learning Outcomes:
• Know and program the P80i/HPCi

Prerequisites:
None

Participants:
Engineers and technicians from automation department

Duration:
5 days

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Seminar No. 573

Automation Products 80 HPCi-RXi

Course Description:
Participants will get to know the HPCi-RXi program. They will learn how to develop and edit P80i, so they are able to install and commission the HPCi-RXi. This training consists 70% practical exercises in which programming will be a topic. Graphic tools and the use of schematics, as well as functional checking, are also a part of the practical exercises. Therefore one Rxi controller will be used.

Learning Outcomes:
• Know and program the P80i/HPCi-RXi

Prerequisites:
None

Participants:
Engineers and technicians from automation department

Duration:
5 days

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Seminar No. 574

Automation Products 80/HPCi RBC

Course Description:
Participants will get to know the HPCi Hardware. They will learn how to edit P80i and to commission the HPCi. Maintenance tools will be also part of the training. This training consists 50% practical exercises in which programming will be a topic. Graphic tools and the use of schematics, as well as functional checking, are parts of theses exercises. Therefore one HPCi controller and PCs under Windows will be needed.

Learning Outcomes:
• P80i/ HPCi initiation

Prerequisites:
None

Participants:
Engineers and technicians from automation department

Duration:
1 days

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Seminar No. 575
WAGO Network on Automation

Course Description:
Participants will get to know the characteristics, topology, connecting, hardware and visualization of the network. The will learn how to commission the network and practice on it. This training consists 70% practical exercises in which programming and commissioning of network WAGO will be trained. Therefore one HPCi controller and one network WAGO 750 +I/O will be used.

Learning Outcomes:
• Know and program the P80i/HPCi

Prerequisites:
None

Participants:
Engineers and technicians from automation department

Duration:
1 days

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Seminar No. 576

Ethercat Network on Automation

Course Description:
Participants will get to know the characteristics and the configuration of the network. They will learn how to commission it. This training consists 70% practical exercises in which programming will be a topic, as well as installing and using the Ethercat communication network between 1 HPCi and remote I/Os Beckhoff. Therefore one HPCi controller and remote I/Os Beckhoff will be used.

Learning Outcomes:
• Know and program the P80i/HPCi

Prerequisites:
None

Participants:
Engineers and technicians from automation department

Duration:
1 days

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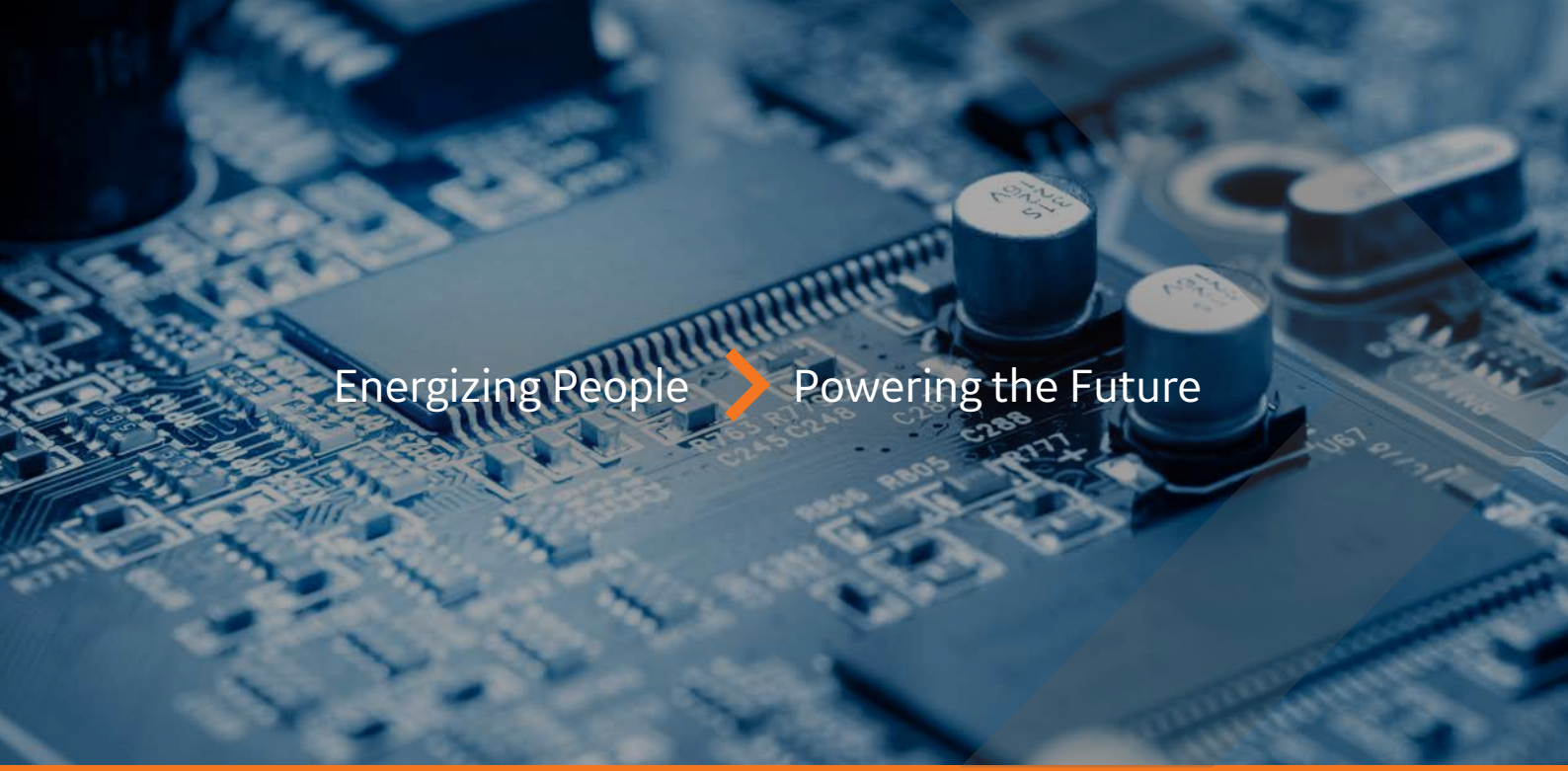

Seminar No. 581

P80i Application Overview

Course Description:
This program is an overview of the P80i Software package as used on GE Power Conversion HPCi based Controllers.Participants will learn how to install the package, structure and navigation of the software, how to perform basic editing of programs.

Communications connection to the controller, online functions, and software maintenance will also be covered.

Learning Outcomes:
Software Navigation, Editing, Online Functions of P80i Application

Prerequisites:
RXi / HPCi Controller Overview

Use of a PC

Participants:
Electrical/Electronic Technicians

Engineering Personnel

Duration:
3 days

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Seminar No. 580

Rxi Controller Overview

Course Description:
This program is an overview of the RXi controller as used on GE Power Conversion HPCi based systems.Participants will learn the functions of the controller connectors and interfacing, and how to set up remote I/O.

Controller configuration and flash drive utilities will also be covered.

Learning Outcomes:
Controller configuration, interfacing, and maintenance of RXi controller

Prerequisites:
Basic Electronics

Use of a PC

Participants:
Electrical/Electronic Technicians

Engineering Personnel

Duration:
1 day

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