COURSE DESCRIPTION, BU MEASUREMENT & ANALYTICS

PROFIBUS

Device Management, Fieldbus and Wireless

Z235e – Web-based training (External version)

Course duration
1.0 hour, depending on personnel knowledge

Course type
This is a web-based training course. The course includes self-study material and self-assessment questions. The language of the course is English.

Course goal
The course introduces the basics the PROFIBUS technology and services.

The training covers the following topics:

- PROFIBUS introduction
- PROFIBUS physics
- PROFIBUS protocol
- PROFIBUS driver
- PROFIBUS key selling points
- PROFIBUS services

Student profile
All ABB stakeholders (customers, universities, partners, …)

Course objectives
Upon completion of this course, students will be able to:

- Name the bus technology history.
- Enumerate the different PROFIBUS layers & specifications.
- Describe the basic PROFIBUS structure and topology.
- Name details of the PROFIBUS DP & PA topology (physics).
- Name the number of bus participants and addresses.
- Know the transmission rate and cable length.
- Name the details of the bus topology in hazardous areas.
- Know the FISCO model.
- Name details of the PROFIBUS DP & PA protocol and communication.
- Know the device installation & address setting
- Know the data traffic & protocol
- Name the profile & blocks
- Know important facts about the cycle time
- Depict the opportunities and applications of the field device drivers.
- Name details of the GSD driver.
- Name details of the EDD driver.
- Name details of the FDT/DTM technology.
- Name the future FDI technology.
- Know the benefits of PROFIBUS DP & PA technology.
- Know the cost in comparison to 4 to 20 mA systems.
- Be able to name a PROFIBUS reference application.
- Know the PROFIBUS International organization.
- Know ABB´s Fieldbus services and competencies.
- Know ABB´s Offering for Fieldbus basic support.
- Know ABB´s Offering for Fieldbus commissioning.
- Know ABB´s Offering for Fieldbus life cycle support and information paths to Fieldbus.

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