GE \ Alstom \ Converteam

ALSPA 80-35

Alspa 80-35 PLC Systems & Maintenance

This course has been designed to familiarise Maintenance Engineers with the many different aspects associated with the operation and maintenance of the Alspa programmable controller.

Where possible, application specific exercises, actual drawings and programs listings are used to allow the students to gain the greatest possible benefit from the course.

Course Reference
ALSPA8035M

Course Duration
4 Days

Documentation
Alspa 80-35 Programming Maintenance Training Manual.

DOWNLOAD SYLLABUS

Objectives

To introduce students to the concepts and operation of FIP communications. Including the following areas.

- Locate and replace faulty modules.
- Fault finding on Genius communication links.
- Using Proficy Machine edition to connect online and monitor programs to determine plant problems.
- Reload programs.
- I/O Fault finding.
- Implement small changes to the program.

COURSE CONTENT

- The hardware architecture of the Alspa controllers.
- I/O Modules and wiring.
- Hardware configuration.
- Addresses used in the Alspa controllers.
- Program structure, creating blocks and block declaration.
- First steps with the programmer.
- Quick keys used on the programmer for: Mode selection, run/stop.
- Creating a Folder.
- Loading and save Folders to the PLC.
- Using and creating program documentation.
- Editing and modifying programs.
- Instruction set:
  Relay, maths, move, compare and logic functions.
- Copying and backing up folders.
- Analogue modules and analogue scaling.
- Introduction to Genius communications.
- Concept of System bits.
- Data monitoring using the reference tables.
- Forcing Facilities.
- Other communication options.
- Faulting tables.
- Diagnosis and resetting faults.
- Documentation using the variable declaration and rung comments.
- Application exercises on your plant exercises.