FTSolution for APT® Maintenance Training Course

Prerequisite knowledge

- Participants should have a basic knowledge of industrial automation and low voltage electrical circuitry in industrial environment.
- Participants should have basic Windows[®] 7,8,10 knowledge and be able to execute basic operations on a PC.

Goals

- Participants will be able to troubleshoot problems on an Industrial Automation Unit based on CTI series 2500 / TI555 PLC's programmed with FTSolution for APT[®].
- Participants will be able to find causes of electrical problems, verify good functioning of I/O cards, test basic functions, temporarily change and force outputs.
- Participants will be able to load and restart the PLC after Hardware or Power failure.

Method

- Various demonstrations
- Exercises

Number of participants

Maximum 6

Duration

• Maintenance training : 3 days



Contents

1. Principles

- General overview of CTI/ TI PLC architectures
- Programming with FTSolution for APT[®]: an object oriented approach

2. Usage

- Overview of FTSolution for APT[®] menu's and Menu structure; help files
- Finding information in the APT[®] Manual set
- Structure of a Solution (I/O, Devices, Units)
- Navigating through a Solution in FTSolution for APT®
- Using Table Definition Utilities (define Declarations, Devices)
- Using the Reports
- Using the Cross Reference

3. Compilation and Download

- Compiling a Solution. When to compile?
- Configuring the Controller type
- Downloading a Solution to the controller
- Verifying a downloaded Solution

4. Debugging a Solution with FTSolution for APT®

- Using the Prog / Run Option
- Monitoring Variables
- Changing I/O and Variables Using the Modify Option Using the Force Option
- Tracing SFC Program Flow Using the Breakpoint, Single Step and Step Logger Option
- Using the Activate Option.