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 Computer 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 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

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Contents

1. Principles

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

2. Usage

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

3. Compilation and Download

- Compiling an APT® Program. When to compile?
- Configuring the Controller type
- Downloading a program to the controller
- Verifying a downloaded program

4. Debugging an APT® Program

- 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.