

# PLC WORKSHOP SUITE FOR 505 TRAINING

## FOUNDATIONS SYLLABUS

This course explores the applications of PLC WorkShop Suite for Siemens 505. The Suite includes PLC programming with PLC WorkShop, running programs in 505 Simulator, recording and graphing data with FTLogger / FTTrender, and managing file changes with FTVersionTrak PE. This course benefits anyone who writes, troubleshoots, or maintains 505 PLC programs for Simatic 505 or CTI 2500 Series processors. Upon completion of this course you will be able to:

### Getting Started

- Install PLC WorkShop Suite and components
- Compare the Hardware Key and Site License Options
- Understand the Communication Server
- Open PLC programs online and offline

### Menu System

- Navigate and understand every menu item
- Use Toolbar Icons to launch frequently used features
- Add instructions with mnemonics, hotkeys, and click and drop methods
- Edit logic while online, and in offline program files

### Multiple Views

- Identify the uses for each view, like the Logic Editor, Data, Documentation, and Cross Reference Window

### Documentation Window

- Define, edit, and navigate through network and address documentation
- Customize the Documentation Window content

### Data Window

- Construct custom address lists
- Read and write values with the PLC
- Display data in various formats and sizes
- Change and force values
- View all forced values
- Create address templates

### PLC Configuration

- Specify processor settings, allocation memory for addresses and instructions, and I/O mapping

### Connecting Online

- Differentiate between connecting to PLC with program file, Fast
- Connect to PLC without program file, and transfer program file to PLC
- Apply auxiliary functions to program needs

### Ladder Logic Editor

- Identify PLC modes
- Edit, validate, and compile ladder logic
- Force and turn addresses on and off
- View ladder status
- Personalize user interface settings
- Locate addresses, instructions, networks, and keywords

### Cross Reference

- Identify all addresses in the program, how, and where they are used
- Select specific address groups
- Jump directly to address instances

### Utilities

- Apply additional auxiliary functions to program needs
- Troubleshoot using PLC WorkShop debug features
- Generate customized printouts
- Preview or print these reports

### PID Loops and Analog Alarms

- Review PID Loops and Analog Alarms

### Special Functions

- Configure Special Function
- Program and Subroutines
- Create, edit, enable, and disable
- Special Functions online and offline

### Profibus Configuration

- Migrate from ComProfibus to PLC WorkShop
- Create and maintain Profibus networks from within PLC WorkShop

### Security

- Configure FasTrak Security
- Configure NT Security
- Set PLC and program file passwords

### Data Acquisition

- Record PLC data for later review
- Graph recorded and real-time data

### PLC Simulation

- Load, run, and edit programs
- Control program execution by scan and network
- Pause program execution with conditional breakpoints
- Test program execution with repeatable I/O simulations

### Version Control

- Manage PLC program changes
- Review lists of all previous program versions
- Identify program differences with detailed file comparisons

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