



## TOYOPUC SAFETY PLC (PCS) TRAINING

### Module 1: Concept

- Interfacing with PLC
- Mnemonic Programming
- Hardware Considerations

### Module 2: PCS CPU

- CPU Layout
- CPU Terminals
- CPU Status Display
- Key Switch

### Module 3: Communication

- SN-I/F Network
- Link Addressing
- Safety BUS
  - o Addressing
  - o Additional Racks

### Module 4: IO Modules

- Input Cards
- Output Cards
- Specialty Cards
- Safety BUS Rack Addressing

### Module 5: Programming and Addressing

- Address Identifiers
  - o Special Flags – V
  - o Timers – T
  - o Communication – L
  - o Edge Detection – P
  - o PCSJ Series – EL
  - o Data Registers – D
  - o Value Registers – N
  - o Special Registers – S
  - o Address Usage
- Safe vs Unsafe Contacts and Coils
- Circuit Types



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### Module 6: Troubleshooting

- Error Monitor
  - o Warning
  - o Minor Error
  - o Major Error
- Special Register Error Contents
- Special Relays
- Troubleshooting Charts

### Module 7: PC Win Safe

- Edit Mode
- File
- Library
- Edit
- View
- Converting
- CPU
- Monitor
- Settings
- Options
- Toolbars
  - o Program Operation
  - o IO Symbols
  - o Bookmark
  - o Comments
- Project File
  - o DataFiles
  - o Parameters
    - IO Module Setup
    - IO Parameter Set
    -
  - o Program
- Property Dialogue
- Program Logic Check
- Troubleshooting