I. **Reading Electrical Diagrams**
   - Electrical Diagrams
   - Schematic Symbols
   - Practice Exercise I & II
   - Relays
   - Special Relays
   - Timers
   - Counters
   - Practice Exercise III

II. **Static and Manual Control Switches**
   - Basic Ladder Diagram
   - Static Control Switches

III. **Sensing and Timing Control Switches**
   - Common Pilot Devices
   - Limit Switches
   - Pressure Switches
   - Flow Switches
   - Float Switches
   - Temperature Switches
   - Foot Switches
   - Proximity Switches
   - Photoelectric Switches
   - Fiber Optic Photoelectric Switches
   - Plugging Speed Switches
   - Reed Switches
   - Timers

IV. **Electromagnetic Control Switches**
   - Electromagnetic Principles, Solenoids, and Relays
   - Basic Solenoid Components and Their Functions
   - Basic Relay Components and Component Functions
   - Types and Application of Solenoids and Relays
   - Control Relays
   - Latch/Unlatch Relays
   - Magnetic Contactors
   - Motor Starters
   - Solenoids
   - Fuses and Circuit Breakers
   - Overloads

V. **Understanding Electrical Control Circuits**
   - Wiring and Schematic Diagram Symbols
   - Electrical Diagrams
   - Ladder Diagrams
   - Basic Rules of Electrical Ladder Diagrams