



ELECTRO PNEUMATICS CONTROL SYSTEM

OBJECTIVES

The Electro-Pneumatics Control System is designed to teach the electric relay control basics of pneumatics and its industrial applications. Electric relay control is a fundamental building block in the study of automation because programmable controllers and solid-state controls employs the same programming methods as well – ladder diagrams and Boolean logic. With this system, participants can set up a wide variety of basic industrial automation control circuits using ladder diagrams and Boolean Logic.

WHO SHOULD ATTEND

1. Anyone with general technical knowledge.
2. Working in a technical environment.
3. Technicians, Supervisors and Engineers who wish to enhance their knowledge in the operation of control systems.

COURSE OUTLINE

DAY 1

1. Introduction to Electrically-Controlled Fluid Power System
2. Equipment Familiarization and Safety.
3. Electrical Control Concepts: Basic Electricity, Input Switches, Control Logic, Electric Power and Measurement of Voltage and Current in Circuits.

DAY 2

1. Basics of Ladder Diagrams: Structure of a Ladder Diagram and Ladder Diagram Rules.
2. Solenoid-Operated Valves: Operation of a Single Solenoid, 2-Position, Directional Control Valve (DCV), Measuring current through the solenoid coil.
3. Push Buttons: Types of Push Buttons, Push Button Circuit, Stop Circuit, Two-Hand Start and Alternate Start Circuit.

DAY 3

1. Selector Switches: Power ON/OFF Selector and Sequence Selector
Indicator Lights: Wiring Light Circuits.
2. Relays: Ladder Diagram Relay Symbols, Control Relay Circuit Applications – Energizing Valve Solenoids, Seal-In Relay Circuit and Control Relay Logic
Limit Switches: Safety Interlock and Event Deenergizing Circuits
3. Motor Control: Single Direction Start/ Stop Control.
Cylinder Reciprocation: Single Cycle Reciprocation with One Limit Switch
Safety Circuit: Emergency Stop Circuit.

TRAINER

PESDC has a panel of professionally qualified, well-trained and industrially experienced technical trainers.

COURSE FEE (STECH-P04)

RM540.00 per pax (member)
RM660.00 per pax (non-member)
(Inclusive of course materials, lunch and refreshment)

Certificate of Achievement will be awarded upon completion of the course.

SBL
claimable

COURSE DETAILS

Duration : 3 Days

Date : Flexible

Time : 9.00am to 5.00pm

Venue : PESDC Training Complex

For Further Enquiries, please contact:

Mr Thillai or Mr Jeremy Lai

PESDC Training Complex

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