



1.0 General Overview

The Electro-Pneumatic System Trainer Kit is a fully integrated double-sided training workstation designed for teaching and demonstrating electro-pneumatic control principles used in industrial automation. The system is engineered for durability, precision, and safe practical training, making it ideal for technical institutions and industrial skill-development centers.

This trainer is supplied complete with commissioning, training, documentation, and accessories as required by the Tanzania Ports Authority for Bandari College – Dar es Salaam. All components are brand new, industrial-grade, and compliant with modern engineering standards.

2.0 Key Features of the Electro-Pneumatic Trainer

The trainer system includes the following essential components:

- Hose lines with quick-release couplings (600 mm, 1000 mm, 1500 mm)
- Safety laboratory cables – 106 pcs (Red, Blue, Black)
- Displacement encoder for cylinder (200 mm stroke)
- Cylinder mounting kit
- 4/3-way proportional valve
- Proportional pressure relief valve
- 5 μ m pressure filter
- 4/3-way regulating valve

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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3.0 Operating Requirements & Capabilities

Designed for realistic industrial simulation, the trainer meets the following operational expectations:

- Industrial-grade valves, actuators, and fittings
- Quick-coupling pipe system for effortless setup
- Pressure endurance up to 10 Bar
- High-strength steel frame with smooth finishing
- Integrated pressure-relief system for safety
- Mobile frame for easy movement
- High-precision solenoid valves with smooth actuation
- Built-in PLC-based electro-pneumatic control module
- Supports essential training exercises:
 - Sequencing
 - Flow control
 - Directional control
 - Pressure regulation

3.1 Air Compressor Unit

- Quiet and robust operation
- Working pressure: 6–10 Bar
- Smooth-finished, securely-mounted air tank
- Integrated air treatment assembly (Filter + Regulator + Lubricator)

4.0 Schedule of Supply

S/N	Description	Qty
1	Supply, commissioning & training of Electro-Pneumatic Trainer Kit with all accessories	1 No.
2	Operating Manual (English), hard & soft copies	2 Sets
3	Service & Maintenance Manual (English), hard & soft copies	2 Sets
4	Spare Parts & Workshop Manual (English), hard & soft copies	2 Sets
5	Basic Level Electro-Pneumatic Trainer Book with Exercises	2 Sets
6	Electrical & Mechanical Tool Boxes with Standard & Special Tools	2 Sets

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