



Fluidsys Training Centre Pvt. Ltd.

Exploring Pneumatics and Hydraulics

About Us

Fluidsys Training Centre offers comprehensive training, specializing in fluid power (hydraulics and pneumatics). It emphasizes practical learning and offers courses in safety protocols, system components, control circuits, system design, maintenance, and troubleshooting.

CIN: U93000KA2017PTC100877 | GSTIN: 29AADCF0201A1ZJ

**Wide Range of Courses | Expert Faculty
Good Infrastructure | Affordable Fees**

Mobile: 7338385505 | email: info@fluidsys.in

Short-term Courses



- Pneumatic Controls – Basic Level (5 days)
- Industrial Hydraulics – Basic Level (10 days)
- Electro-pneumatics /Automation (5 days)
- Advanced Pneumatics (02 days)
- Advanced Electro-pneumatics (3 days)
- PLC (OMRON) with Pneumatic Applications (5 days)
- Advanced Hydraulics (5 days)
- Design of Pneumatic Systems (2 days)
- Design of Industrial Hydraulic Systems (4 days)
- Tracing and Interpreting Hydraulic Circuits (5 days)

Brief Course Contents



Pneumatic Controls – Basic Level: Compressed air generation and preparation, Pneumatic actuators, maintenance, symbols, Pure pneumatic single-actuator circuits with directional control valves, flow control valves, roller valves, logic valves, timers, two-hand safety block, pressure sequence valve, and counters. [This is a practical-based course]

Industrial Hydraulics – Basic Level: Fundamentals, symbols, hydraulic fluids, filters, reservoirs, pumps, pressure relief valves, actuators, directional control valves, flow control valves, pressure control valves, accumulators, seals, fluid conductors, maintenance, and safety. [This is a practical-based course]

Electro-pneumatics and Automation: Solenoid valves, symbols, single-actuator electro-pneumatic circuits with PBs, relays, latching, memory function, electronic timers, limit switches, proximity sensors, reed switches, pressure switches, and counters. [This is a practical-based course]

Advanced Pneumatics: Multi-actuator circuit development using Cascade method, Shift register method, and Stepper modules with simulation and limited practical. [This is a practical-based course]

Advanced Electro-pneumatics: Multi-actuator circuit development using Cascade method, Shift Register method with simulation and practical. [This is a practical-based course]

PLC (OMRON) with Pneumatic Applications: Hardware and software aspects of PLC, Programming with NO, NC, coil, timer, set, reset, and counter commands with pneumatic (or hydraulic) and general applications [This is a practical-based course].

Advanced Hydraulics: Hydrostatic transmissions (HSTs), Load sensing systems, Proportional valves, Servo valves, and Cartridge valves.

Design of Pneumatic Systems: Sizing of pneumatic components and conductors.

Design of Industrial Hydraulic Systems: Sizing of hydraulic components and conductors.

Tracing and Interpreting Hydraulic Circuits: Symbols, study of typical conventional hydraulic circuits, HST circuits, variable-displacement pump circuits, load sensing circuits, cartridge valve circuits, tracing of industrial and mobile hydraulic circuits.



Long-term Course

Hydraulic and Pneumatic Systems – Advanced Level

Duration: 12 weeks (Monday to Friday, 4 to 6 hours per day)

Eligibility: ITI / Diploma / Degree in Engineering (Mechanical / Electrical / Electronics / Computer Science streams) Or Two years of experience in the field

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Course Structure:

- Basic health and safety practices
- Pneumatics – Basic level
- Hydraulics – Basic level
- Hydraulics – Basic level
- Electro-pneumatics – Basic level
- Pneumatics / Electro-pneumatics – Advanced level
- Programmable Logic Controllers / HMI
- Hydraulics - Advanced Level [Hydrostatic Transmissions (HSTs), Load sensing systems, Proportional valves, Servo valves, Cartridge valves]
- Design of typical Pneumatic and Hydraulic systems
- Tracing of industrial and mobile pneumatic & hydraulic circuits / Maintenance and troubleshooting of pneumatic and hydraulic systems
- Soft skills: Communication, Leadership, Interpersonal skills, Problem-solving and decision-making, Emotional intelligence, Team building, Time management, and Stress management
- Optional: (1) a small project work or (2) Fitting, assembly, and testing of pneumatic and hydraulic systems

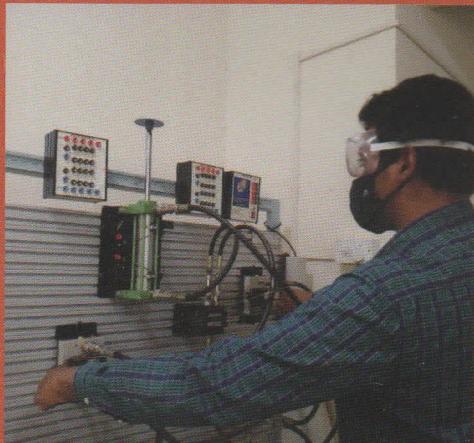
Attendance: Min 80% | **Assessment:** Continuous evaluation | **Certificate:** Issued by Fluidsys Training Centre Pvt. Ltd., Bangalore

More About Us

Fluidsys Training Centre, Bangalore offers long-term, short-term, and tailor-made courses, internship programs for engineering students, and customized on-site training for industries. If you are seeking dependable fluid power training, Fluidsys is the ideal choice.

The long-term course is especially suitable for fresh graduates and diploma holders in the mechanical, electrical, electronics, and computer science streams who want to upgrade their knowledge of pneumatics and hydraulics. Semi-experienced professionals are also welcome to join the course. The program aims to provide participants with the skills necessary to effectively address various technical challenges and confidently engage with fluid power systems.

**Long-term Course | Short-term Courses
Tailor-made Courses | Corporate Training
On-site Training | Internship Programmes**



Faculty

The Training Centre is responsible for identifying, creating, and providing opportunities for the professional development of our trainees. This will enhance and build their capacity, skills, excellence, and professionalism to enable them to contribute effectively to their service tasks. Our training courses are handled by competent faculty.

Fluidsys Training Centre Pvt. Ltd.

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