



PNEUMATIC CONTROLS

Condensed Course Outline

PNEUMATIC DIAGRAMS

- ☐ Pneumatic symbols
- ☐ Schematic construction
- ☐ Air supply diagrams
- ☐ Timing circuits
- ☐ Safety circuits

PRESSURE REGULATION & SAFETY

- ☐ Pressure regulators
- ☐ Safety & relief valves
- ☐ Pressure reducing valves
- ☐ Installation & repair

DIRECTIONAL CONTROL VALVES

- ☐ Two-, three-, four- & five-way valves
- ☐ Valve actuation methods
- ☐ Manifolds & subbases
- ☐ Control valve elements

CYLINDERS & ACTUATORS

- ☐ Single & double acting cylinders
- ☐ Cylinder sizing
- ☐ Mounting & installation
- ☐ Cushioning
- ☐ Cylinders with sensors
- ☐ Rotary actuators
- ☐ Air motors

FLOW CONTROLS

- ☐ Flow control valves
- ☐ Speed control
- ☐ Quick exhaust valves
- ☐ Excess flow valves
- ☐ Noise control & silencers

GAUGES & INSTRUMENTATION

- ☐ Pressure gauges
- ☐ Temperature gauges
- ☐ Gauge selection & installation
- ☐ Flowmeters
- ☐ Vacuum breakers

SYSTEM TROUBLESHOOTING

- ☐ Troubleshooting procedures
- ☐ Checking air supply
- ☐ Valve & actuator diagnostics
- ☐ Sequence & interlock checks
- ☐ Common pneumatic system problems



Multi-Skill Training
SERVICES

THE INDUSTRIAL TRAINING PROFESSIONALS