



**BASIC PNEUMATICS – 4 HOUR AGENDA**

**Textbook #** SMCT-NT104

**Pneumatic Fundamentals**

1. Units of Measure
2. Pressure vs. Flow
3. Pipe Thread Identification
4. ISO Symbols
5. Moisture & Contamination

**Post Compressor Air Quality**

1. Dryers
2. Filters - ISO 8573
3. Regulators
4. Lubricators
6. Soft Start – Dump Valves – ISO 13849

**Hands on Circuit Building**

**Valves**

1. Function (2, 3, 4, or Dual 3-way) and Symbols
2. Direct, Solenoid Air Pilot, or External Pilot
3. Body Ported, Base Mount, or Manifold
4. Discrete or Fieldbus
5. Multiple Pressures
6. Differential Pressure

**Hands on Circuit Building**

**Actuators**

1. Linear, Guided, Locking, Gripper, Rotary, High Speed
2. Repairable, Non-Repairable
3. Stroke Adjust, Shock Absorbers
4. Switches

**Hands on Circuit Building**

