Kentucky CTE

Advanced Manufacturing: Industrial Maintenance Technology: Advanced Pneumatic Systems 470326 (2026–2027)

Practice and perform safe shop procedures at all times. 1	1 Practice and perform safe shop procedures at all times. 1
Apply the technical math required for employment opportunities in maintenance. 2	2 Apply the technical math required for employment opportunities in maintenance. 2
Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3	3 Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3
Repair a pneumatic cylinder. 4	4 Repair a pneumatic cylinder. 4
Choose a pneumatic cylinder for a specific application. 5	5 Choose a pneumatic cylinder for a specific application. 5
Interpret pneumatic schematics. 6	6 Interpret pneumatic schematics. 6
Construct basic air logic cir	7 Construct basic air logic circuits. 7

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Identify symbols and devices used in air logic circuits. 8	**8** **Identify symbols and devices used in air logic circuits.** 8
Install and operate a check valve. 9	**9** **Install and operate a check valve.** 9
Install and operate a four-way pilot-operated directional control valve (DCV). 10	**10** **Install and operate a four-way pilot-operated directional control valve (DCV).** 10
Install and operate a push-button DCV. 11	**11** **Install and operate a push-button DCV.** 11
Install and operate a cam-operated DCV. 12	**12** **Install and operate a cam-operated DCV.** 12
Design a pneumatic system. 13	**13** **Design a pneumatic system.** 13
Disassemble an air compressor. 14	**14** **Disassemble an air compressor.** 14
Repair valves. 15	**15** **Repair valves.** 15
Troubleshoot a pneumatic system. 16	**16** **Troubleshoot a pneumatic system.** 16
Test pneumatic components for proper operation. 17	**17** **Test pneumatic components for proper operation.** 17