Kentucky CTE

Advanced Manufacturing: Industrial Maintenance Technology: Basic Troubleshooting 499925 (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
Explain the reason efficient troubleshooting is important in a production plant. 4	4 Explain the reason efficient troubleshooting is important in a production plant. 4
List the steps in troubleshooting a machine/system. 5	5 List the steps in troubleshooting a machine/system. 5
Demonstrate good co wh pe	6 Demonstrate good communication skills when dealing with plant personnel. 6

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List the questions that should be asked when a machine/system fails. 7

7 List the questions that should be asked when a machine/system fails. 7

List the signs of a machine in need of service. 8

8 List the signs of a machine in need of service. 8

List the information that should be recorded in a machine equipment record. 9

9 List the information that should be recorded in a machine equipment record. 9

Identify calibration standards. 10

10 Identify calibration standards. 10

Identify different troubleshooting test equipment. 11

11 Identify different troubleshooting test equipment. 11

Use schematics when troubleshooting. 12

12 Use schematics when troubleshooting. 12

Identify differences in schematics when troubleshooting. 13

13 Identify differences in schematics when troubleshooting. 13

Use a troubleshooting chart. 14

14 Use a troubleshooting chart. 14

Identify bearing wear problems. 15

15 Identify bearing wear problems. 15

Identify pump failure problems and solutions. 16

16 Identify pump failure problems and solutions. 16

Identify types of hosing. 17

17 Identify types of hosing. 17

Identify current voltage characteristics of wi

18 Identify current voltage characteristics of wire. 18

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Apply all safety rules when working with electrical equipment. 19

19 Apply all safety rules when working with electrical equipment. 19

Identify a pictorial diagram, blocking diagram, and schematic diagram. 20

20 Identify a pictorial diagram, blocking diagram, and schematic diagram. 20

Demonstrate how to troubleshoot an electrical problem. 21

21 Demonstrate how to troubleshoot an electrical problem. 21

List preventive maintenance procedures. 22

22 List preventive maintenance procedures. 22