Kentucky CTE

Industrial Maintenance Technology: Maintaining Industrial Equipment

Practice and perform safe shop procedures at all times. MIE1	1 Practice and perform safe shop procedures at all times. MIE1
Apply the technical math required for employment opportunities in maintenance. MIE2	2 Apply the technical math required for employment opportunities in maintenance. MIE2
Perform all duties with emphasis on MIE3	a integrity MIE3A
	b responsibility MIE3B
	c quality MIE3C
	d discipline MIE3D
	e teamwork MIE3E
Describe the care and safe use of maintenance tools, equipment and components, such as lock-out/tag-out, rigging, electrical safety. MIE4	4 Describe the care and safe use of maintenance tools, equipment and components, such as lock-out/tag-out, rigging, electrical safety. MIE4
Describe lubrication techniques used on machines and components. MIE5	5 Describe lubrication techniques used on machines and components. MIE5
Ide be	Skip to main content dentify various types of bearings and seals. MIE6

Explain the replacement procedure for bearings and seals. MIE7	**7** **Explain the replacement procedure for bearings and seals.** MIE7
Explain alignment of couplings using straight edge and feeler gauge, dial indicator methods, and laser. MIE8	**8** **Explain alignment of couplings using straight edge and feeler gauge, dial indicator methods, and laser.** MIE8
Explain the mounting and operation of centrifugal pumps and motors. MIE9	**9** **Explain the mounting and operation of centrifugal pumps and motors.** MIE9
Explain the mounting and operation of speed reduction/speed increase assemblies. MIE10	**10** **Explain the mounting and operation of speed reduction/speed increase assemblies.** MIE10
Explain the mounting and operation of clutch and brake assemblies. MIE11	**11** **Explain the mounting and operation of clutch and brake assemblies.** MIE11
Identify common belts, such as V-Belt and timing. MIE12	**12** **Identify common belts, such as V-Belt and timing.** MIE12
Explain the tensioning and alignment of various belts. MIE13	**13** **Explain the tensioning and alignment of various belts.** MIE13
Identify common types of chains, such as roller and silent. MIE14	**14** **Identify common types of chains, such as roller and silent.** MIE14
Explain the tensioning and alignment of various chains. MIE15	**15** **Explain the tensioning and alignment of various chains.** MIE15
Explain the alignment of sp sh	**16** **Explain the alignment of sprockets and sheaves.** MIE16

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Explain the installation and adjustment variable of pitch sheaves. MIE17	17 Explain the installation and adjustment variable of pitch sheaves. MIE17
Explain the common types of gears, such as spur and helical. MIE18	18 Explain the common types of gears, such as spur and helical. MIE18
Describe the maintenance of open and closed gearing. MIE19	19 Describe the maintenance of open and closed gearing. MIE19
Explain the diametral pitch and gear meshing. MIE20	20 Explain the diametral pitch and gear meshing. MIE20
Explain vibration analysis in troubleshooting. MIE21	21 Explain vibration analysis in troubleshooting. MIE21
Identify various fasteners, key and keyways, and bolts. MIE22	22 Identify various fasteners, key and keyways, and bolts. MIE22
Explain set-up, lighting and using oxyfuel cutting equipment. MIE23	23 Explain set-up, lighting and using oxyfuel cutting equipment. MIE23
Perform lubrication techniques on machines and components. MIE24	24 Perform lubrication techniques on machines and components. MIE24
Replace bearings and seals. MIE25	25 Replace bearings and seals. MIE25
Align couplings using straight edge and feeler gauge, dial indicator methods, and laser. MIE26	26 Align couplings using straight edge and feeler gauge, dial indicator methods, and laser. MIE26
Mc ce motors. MIE27	Mount and operate centrifugal pumps and motors. MIE27

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Mount and operate speed reduction/speed increase assemblies. MIE28	**28 Mount and operate speed reduction/speed increase assemblies.** MIE28
Mount and operate clutch and brake assemblies. MIE29	**29 Mount and operate clutch and brake assemblies.** MIE29
Adjust tension and alignment of various belts MIE30	**30 Adjust tension and alignment of various belts** MIE30
Adjust tension and alignment of various chains. MIE31	**31 Adjust tension and alignment of various chains.** MIE31
Align sprockets and sheaves. MIE32	**32 Align sprockets and sheaves.** MIE32
Install and adjust pitch sheaves. MIE33	**33 Install and adjust pitch sheaves.** MIE33
Maintain open and closed gearing. MIE34	**34 Maintain open and closed gearing.** MIE34
Use vibration analysis in troubleshooting. MIE35	**35 Use vibration analysis in troubleshooting.** MIE35
Perform straight line, piercing, beveling with oxyfuel cutting equipment. MIE36	**36 Perform straight line, piercing, beveling with oxyfuel cutting equipment.** MIE36