

Maintenance & Reliability Technician (CMRT)

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Q1. What is the primary reason for applying proper torque during bolt tightening

- A. To increase the surface finish
- B. To prevent galling of threads
- C. To ensure the bolt does not come loose or fail
- D. To reduce maintenance costs

Answer: C

Explanation: Proper torque ensures that a bolt is neither under-tightened (which can cause it to come loose) nor over-tightened (which can cause it to fail). It maintains correct clamping force.

Q2. Which of the following tools is used to measure shaft misalignment

- A. Vernier caliper
- B. Laser alignment tool
- C. Micrometer
- D. Torque wrench

Answer: B

Explanation: Laser alignment tools are highly accurate and used for detecting and correcting shaft misalignment in rotating equipment.

Q3. What is the key purpose of a lock washer

- A. To increase friction in the threads
- B. To act as a spacer
- C. To prevent loosening due to vibration
- D. To distribute the load

Answer: C

Explanation: Lock washers are designed to prevent fasteners from loosening under vibration or torque by adding spring tension.

Q4. Which of the following is a common symptom of improper bearing installation

- A. Increased bearing life
- B. Reduced lubrication needs
- C. Premature bearing failure
- D. Better energy efficiency

Answer: C

Explanation: Improper installation can misalign the bearing or cause damage, leading to early failure.

Q5. Why is a torque wrench preferred over a standard wrench for tightening bolts

- A. It is faster
- B. It requires less skill
- C. It ensures the proper clamping force
- D. It's more ergonomic

Answer: C

Explanation: Torque wrenches apply a specific amount of force, ensuring proper clamping without over-tightening.

Q6. Which predictive maintenance tool is most effective for identifying overheating in electrical systems

- A. Vibration analyzer
- B. Ultrasonic sensor
- C. Thermographic camera
- D. Oil analyzer

Answer: C

Explanation: Thermographic cameras detect infrared radiation (heat), making them ideal for identifying hot spots in electrical components.

Q7. Oil analysis can detect all of the following EXCEPT

- A. Water contamination
- B. Wear metals
- C. Vibration levels
- D. Viscosity breakdown

Answer: C

Explanation: Oil analysis can reveal contaminants and oil condition, but not vibration, which is measured using a vibration analyzer.

Q8. What is a key benefit of vibration monitoring

- A. Increases fuel efficiency
- B. Detects misalignment and imbalance early
- C. Reduces oil changes
- D. Extends warranty periods

Answer: B

Explanation: Vibration analysis is used to identify early signs of imbalance, misalignment, and bearing failure in rotating equipment.

Q9. What type of maintenance involves regularly scheduled equipment inspection and servicing

- A. Corrective
- B. Predictive
- C. Preventive
- D. Reactive

Answer: C

Explanation: Preventive maintenance is scheduled at regular intervals to minimize the risk of unexpected failures.

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