

PEMAC Maintenance Management Professional Exam Demo

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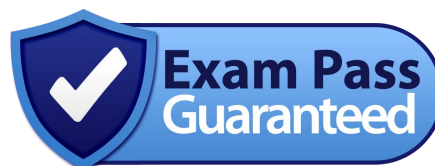
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QUESTION 1

What is the primary purpose of developing a maintenance strategy?

- A. To react quickly to failures
- B. To align maintenance with organizational goals
- C. To increase spare parts inventory
- D. To reduce workforce size

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: A maintenance strategy ensures that maintenance objectives support business goals—such as safety, reliability, and profitability—by aligning technical actions with corporate priorities.

QUESTION 2

The maintenance function adds business value when it:

- A. Works independently from operations
- B. Reduces unplanned downtime and total cost of ownership
- C. Prioritizes quantity over quality
- D. Focuses only on reactive work

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Maintenance adds value by enhancing equipment reliability and reducing lifecycle costs, leading to increased productivity and competitiveness.

QUESTION 3

Which of the following best describes strategic alignment in maintenance?

- A. Using a single maintenance type for all assets
- B. Linking maintenance decisions with organizational strategy
- C. Outsourcing all maintenance work
- D. Conducting daily toolbox talks

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Strategic alignment means maintenance plans and policies directly support organizational goals—for example, improving uptime for production efficiency.

QUESTION 4

In a manufacturing environment, what is the key relationship between maintenance and operations?

- A. Operations depend on maintenance for reliability
- B. Maintenance is independent of operations

- C. Operations can perform without maintenance
- D. Operations manage maintenance entirely

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: Effective production requires reliable equipment, and maintenance ensures that reliability through planned activities and continuous coordination with operations.

QUESTION 5

A bottleneck machine in production requires special maintenance attention because:

- A. It has a high spare-part cost
- B. It limits overall production throughput
- C. It's easy to replace
- D. It operates in low demand

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Bottleneck assets determine plant output capacity, so their maintenance should be prioritized to avoid major production losses.

QUESTION 6

Total Productive Maintenance (TPM) aims to:

- A. Assign all maintenance to engineers only
- B. Engage operators in basic maintenance activities
- C. Eliminate preventive maintenance
- D. Outsource plant maintenance

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: TPM promotes operator ownership by involving them in inspection, lubrication, and cleaning, enhancing reliability and team collaboration.

QUESTION 7

The maintenance workflow begins with:

- A. Scheduling
- B. Work identification
- C. Work execution
- D. Cost analysis

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Every maintenance process starts with identifying a need for workâ€”from inspections, predictive systems, or operator reportsâ€”before planning and scheduling.

QUESTION 8

A well-planned maintenance job typically results in:

- A. Higher labor cost
- B. Lower wrench time and downtime
- C. Fewer completed jobs
- D. Reduced safety

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Proper planning ensures the right parts, tools, and instructions are ready, leading to efficient work and minimal downtime.

QUESTION 9

Backlog management in maintenance involves:

- A. Ignoring old work orders
- B. Regularly reviewing and prioritizing pending work
- C. Deleting all overdue tasks
- D. Hiring new planners

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Backlog review ensures maintenance resources target the most critical and overdue work, maintaining a healthy workload balance.

QUESTION 10

The key responsibility of a maintenance scheduler is:

- A. Tracking inventory
- B. Sequencing work orders for efficient execution
- C. Approving purchase orders
- D. Conducting inspections

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: The scheduler arranges planned work to maximize resource utilization while minimizing conflicts with production.

QUESTION 11

What is the most important factor for developing an effective maintenance team?

- A. Hiring based solely on experience

- B. Clear role definition and continuous training
- C. Limiting employee feedback
- D. Strictly following hierarchy

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Successful maintenance teams require well-defined responsibilities, skill development, and engagement, ensuring alignment with maintenance objectives.

QUESTION 12

Job safety analysis (JSA) is performed to:

- A. Identify cost overruns
- B. Assess and control job-specific hazards
- C. Speed up work orders
- D. Replace inspections

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: A JSA identifies potential hazards in each maintenance task, ensuring safe execution and regulatory compliance.

QUESTION 13

Motivation in maintenance teams increases when:

- A. Only financial rewards are offered
- B. Workers are recognized for reliability improvements
- C. Supervisors micromanage tasks
- D. Feedback is discouraged

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Recognition of employee contributions builds engagement and ownership, which leads to improved reliability and performance.

QUESTION 14

Leadership in maintenance is best demonstrated through:

- A. Strict control
- B. Effective communication and empowerment
- C. Frequent disciplinary actions
- D. Minimal delegation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Effective leaders communicate goals, empower staff, and encourage accountability, resulting in stronger team performance.

QUESTION 15

Life Cycle Cost (LCC) analysis helps maintenance managers to:

- A. Determine only repair costs
- B. Evaluate total asset ownership costs
- C. Ignore procurement costs
- D. Replace preventive maintenance

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation: LCC considers purchase, operation, maintenance, and disposal costs, enabling informed asset investment and replacement decisions.

QUESTION 16

The maintenance budget should primarily be based on:

- A. Historical cost data and future work plans
- B. Random expenditure
- C. Vendor recommendations only
- D. Emergency repairs

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation: Budgets are developed using past performance data and planned maintenance programs, ensuring adequate financial control.

QUESTION 17

Cost avoidance in maintenance refers to:

- A. Ignoring future failures
- B. Preventing future costs through proactive work
- C. Delaying repair decisions
- D. Increasing spending

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation: Cost avoidance results from preventing failures before they cause costly downtime or damage, improving ROI.

QUESTION 18

The maintenance cost ratio (MCR) measures:

- A. Maintenance hours per technician
- B. Maintenance cost as a percentage of asset replacement value
- C. Profit margin
- D. Total maintenance backlog

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: MCR helps compare maintenance performance across plants by relating cost to asset value, indicating financial efficiency.

QUESTION 19

A Computerized Maintenance Management System (CMMS) primarily:

- A. Tracks employee attendance
- B. Manages work orders, assets, and maintenance history
- C. Schedules marketing activities
- D. Replaces production control

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: A CMMS stores maintenance data and automates work orders, scheduling, and reporting, enhancing decision-making and performance tracking.

QUESTION 20

The most critical factor for successful CMMS implementation is:

- A. Purchasing the most expensive software
- B. Data accuracy and user adoption
- C. Limiting system access
- D. Ignoring training

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: CMMS success depends on accurate data and trained users, ensuring reliable information for planning and reporting.

QUESTION 21

Maintenance KPIs such as MTBF and MTTR are useful because they:

- A. Measure staff satisfaction
- B. Track equipment reliability and performance
- C. Replace financial reporting
- D. Eliminate root cause analysis

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: These KPIs quantify equipment reliability (MTBF) and repair efficiency (MTTR)â€”essential for continuous improvement.

QUESTION 22

Which communication skill is essential for maintenance managers?

- A. Technical writing only
- B. Active listening and clear instruction delivery
- C. Delegating without explanation
- D. Avoiding meetings

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Effective communication ensures that team members understand goals, responsibilities, and safety requirements, reducing errors and improving collaboration.

QUESTION 23

A key managerial competency for maintenance leaders is:

- A. Ignoring conflict
- B. Coaching and mentoring staff for growth
- C. Delegating all decisions
- D. Avoiding change

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Strong managers develop team capabilities, fostering innovation, accountability, and professional growth.

QUESTION 24

Conflict within a maintenance team is best resolved by:

- A. Avoiding discussion
- B. Using open dialogue and finding root causes
- C. Assigning blame
- D. Escalating every issue

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Constructive conflict resolution involves listening to all sides and addressing underlying issues, improving trust and performance.

QUESTION 25

The first step in developing a maintenance strategy is to:

- A. Identify critical assets and business goals
- B. Create an annual budget
- C. Train operators
- D. Buy spare parts

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: A sound maintenance strategy starts with understanding asset criticality and aligning it with organizational objectives.

QUESTION 26

A risk-based maintenance plan prioritizes:

- A. Work on low-impact assets
- B. Maintenance based on potential risk and consequence of failure
- C. Random inspection schedules
- D. Work on cheapest machines

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Risk-based approaches focus on assets whose failure poses the greatest operational, safety, or financial risks.

QUESTION 27

Root Cause Failure Analysis (RCFA) is applied when:

- A. Equipment fails repeatedly
- B. Spare parts are available
- C. Budget is approved
- D. Maintenance backlog is zero

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: RCFA identifies underlying causes of recurring failures, enabling permanent corrective actions and long-term reliability improvement.

QUESTION 28

Which factor is essential for ensuring maintenance strategy sustainability?

- A. Continuous review and improvement
- B. One-time implementation
- C. Outsourcing all work
- D. Ignoring performance metrics

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: A sustainable strategy requires regular performance evaluation and continuous improvement to stay effective over time.

QUESTION 29

A maintenance strategy should be documented because:

- A. It satisfies auditors only
- B. It ensures consistent communication and accountability
- C. It limits creativity
- D. It replaces training

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: Documented strategies help standardize practices and provide a clear reference for all stakeholders.

QUESTION 30

The final output of the MMP program's capstone project typically includes:

- A. A theoretical essay
- B. A practical, data-driven maintenance improvement plan
- C. Only financial statements
- D. Employee reviews

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation: The capstone integrates all learning into a real-world maintenance improvement project, demonstrating analytical and strategic application skills.