

“Maintenance and Reliability Best Practices”

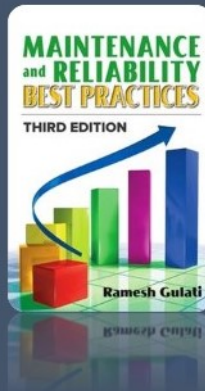
Questions

by Ramesh Gulati

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“Maintenance and Reliability Best Practices” Questions

These are Example Questions from Ramesh Gulati’s book,
“Maintenance and Reliability Best Practices”



Great Reference Book when preparing for the CMRP Exam
Each chapter has questions which if you missed gives you the page #
in the book where to locate the answer.

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1. **Best Practices are practices that are defined and applied by an organization to improve their operation. These practices may or may not be proven, but results are found to be acceptable.**
 - a. True
 - b. False

Answer: a — True

A best practice is a business function, a practice, or a process, that is considered superior to all other known methods. It’s a documented strategy and approach used by the most respected, competitive, and profitable organizations. A best practice when implemented appropriately should improve performance and efficiency in a specific area. See more details in Chapter 1.

2. Maintainability is measured by PM schedule compliance.

a. True

b. False

Answer: b — False

Maintainability is defined as ease of maintenance; it's primarily measured by Mean Time to Repair (MTTR). See more details in Chapter 6.

3. All maintenance personnel's time should be covered by work orders.

a. True

b. False

Answer: a — True

All maintenance personnel's time should be counted and documented in CMMS to ensure all repair and maintenance costs are accurate. See more details in Chapters 3 and 4.

4. Operations and Maintenance must work as a team to achieve improved OEE.

a. True

b. False

Answer: a — True

OEE is calculated as Availability X Performance X Quality. Operations and Maintenance both impact this metric and need to work together as a team to achieve higher OEE. See more details in Chapter 7.

5. Best practices would indicate that 90% or more of all maintenance work is planned.

a. True

b. False

Answer: a — True

It's good practice to plan 90% or more work. Planned work costs 2–3 times less than reactive work. See more details in Chapter 4.

6. 100% of PM and PdM tasks should be developed using FMEA / RCM methodology.

a. True

b. False

Answer: a — True

All PM / PdM tasks should be developed using FMEA / RCM methodology. This ensures cost effective and correct tasks to mitigate certain risks and to find failures before they fail. See more details in Chapter 3 and 8.

7. Utilization of assets in a world-class facility should be about 85% or better.

a. True

b. False

Answer: a — True

Assets cost money to procure and maintain. They should be utilized 98% or better to get high ROI. Of course, our M&R task is to ensure their availability; we need some time to perform maintenance too. See more details in Chapter 4 and 9.

8. 100% of maintenance personnel's (craft) time should be scheduled.

a. True

b. False

Answer: a — True

100 % of maintenance personnel, specifically craft available hours, should be scheduled. Scheduling compliance analysis should provide opportunity to reduce/eliminate waste and improve productivity. See more details in Chapter 4.

9. Time-based PMs should be less than 20% of all PMs.

a. True

b. False

Answer: a – True

It's a good and cost-effective practice to do more run/cycle-based and condition-based PM. It's good practice to have calendar-based PMs 20% or less. If assets are operating 24/7, calendar-based PM could be a higher percentage. See more details in Chapters 3, 4, and 8.

10. The 10% rule of PM is applied on critical assets.

a. True

b. False

Answer: a — True

This rule implies that time-based PM must be accomplished in 10% of the time frequency or it is out of compliance. Many organizations use this metric "PM Compliance" as a measurement of their maintenance department's performance, which is a good metric. But, we need to ensure that critical assets are being maintained properly at the right time, within 10% of time frequency. See more details in Chapters 3 and 4.

This book can be purchased at: "Industrial Press" at <https://books.industrialpress.com/9780831136475/maintenance-and-reliability-best-practices/>