

Maintenance Engineer Job Interview Questions And Answers



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Maintenance Engineer Interview Questions And Answers Guide.

Question - 1:

Explain me what Is Maintenance Capacity?

Ans:

Capacity planning is the translation of the maintenance load into resource needed to meet the forecasted load. Resources include, number and skills of craftsmen, maintenance tools, labor, material, spare parts, etc.

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Question - 2:

Tell me what do you enjoy most/least about engineering?

Ans:

You should tailor this to the responsibilities of the role you are interviewing for and try to keep your answer centred on the positives.

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Question - 3:

Explain me what Is Maintenance Scheduling?

Ans:

Maintenance scheduling is the process of assigning resources for tasks to be accomplished at a certain time in a certain frequency. Scheduling of tasks should take into account production schedules, optimization of resources and reducing costs.

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Question - 4:

Tell us what is Drafting machine(Mini Drafter)?

Ans:

It is a device to do drawing work neatly and quickly. An attachment provided to move any position and may be adjusted at any required height.

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Question - 5:

Explain me what is a Drawing?

Ans:

It is a graphical representation of a real thing to define and specify the shape and size of a particular object by means of lines.

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Question - 6:

Explain what do you mean by Break Lines?

Ans:

It is used to limit a broken section. For short break an uneven freehand thick line is recommended and for long breaks a long thin ruled dashes joined by freehand 'Zig Zags' are used.

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Question - 7:

Explain me how to calculate bearing number to diameter of the inner and outer?

Ans:



Divide the shaft diameter size by 5, it will give last two digit of the bearing no. and according to type of load we have to chose the type of bearing and that will give prior no. of the bearing.

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Question - 8:

Tell me what Is Maintenance Load Forecasting?

Ans:

Maintenance forecasting is a major part of planning concerned with estimating the current and future amount of maintenance work and type needed. Maintenance load forecasting is a complex task that involves a lot of uncertainties and influenced by many factors such as the age of the equipment, the rate of use, usage climate, and skills of workers.

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Question - 9:

Explain me what is an accident?

Ans:

An accident is a unexpected and unforeseen event which may or may not injury to a person or a machine tool.

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Question - 10:

Explain me what is a Centre line?

Ans:

Centreline is a thin line in the form long and short dashes. It indicates area of symmetrical parts, circles and path of motion.

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Question - 11:

Tell me what Are The Elements Included In Technical And Operational Plans?

Ans:

- * Maintenance philosophy
- * Maintenance load forecasting
- * Maintenance capacity
- * Maintenance scheduling.

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Question - 12:

What do you mean by First Aid as Maintenance Engineer?

Ans:

First Aid is immediate and temporary care given to a person who affected accidental injury or a sudden illness before the arrival of doctor.

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Question - 13:

Tell us what are the standard sizes of drawing board as per Indian Standards?

Ans:

As per Indian Standards:

1250times900,
900times650,
650times500,
500times350,
350times250
sizes are available.

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Question - 14:

Tell us what are Phantom Lines?

Ans:

These are thin lines composed of long dashes with pair of short dashes. Phantom Lines used to show adjacent parts, alternate positionsand the lines of motion.

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Question - 15:

Tell us what is the main advantage of chain dimensioning?

Ans:

Chain dimensioning can be used where the possible accumulation of tolerance does not cause danger to the functional requirement of the part.

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**Question - 16:**

Tell us what Is Reliability Centered Maintenance?

Ans:

Reliability Centered Maintenance (RCM) was initiated by the commercial aviation industry and then adopted by the U.S. military in the 1970s and then by the U.S. commercial nuclear power industry (in the 1980s) followed by other commercial industries and fields in the early 1990s.

RCM is defined by the technical standard SAE JA1011, as "an engineering framework that enables the definition of a complete maintenance regime. It regards maintenance as the means to maintain the functions a user may require of machinery in a defined operating context".

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Question - 17:

Do you know what is a Vernier Scale?

Ans:

This is used to measure very small unit with greater accuracy. It consists of a primary scale and a vernier scale. Vernier scale slides on the primary scale.

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Question - 18:

Tell me what was the workload like in your previous engineering department?

Ans:

It is imperative that you do not complain about the workload in your previous job, even if it was taxing. Illustrate your efficiency; explain how you manage your time and prioritise tasks.

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Question - 19:

Tell me what Are The Types Of Manufacturing Systems?

Ans:

The oldest type of manufacturing system is the custom manufacturing where a person or a machine makes a certain product tailored to a specific need. A shoemaker is an example of this system. Modern manufacturing have intermittent, continuous or flexible production systems.

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Question - 20:

Tell us what are Section lines?

Ans:

Section lines are thin lines and used to show the cut surface of an object in sectional view.

[View All Answers](#)

Question - 21:

Tell us what is software scope?

Ans:

Software scope is a well-defined boundary, which encompasses all the activities that are done to develop and deliver the software product.

The software scope clearly defines all functionalities and artifacts to be delivered as a part of the software. The scope identifies what the product will do and what it will not do, what the end product will contain and what it will not contain.

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Question - 22:

Tell us what Are The Maintenance Concepts And Strategies?

Ans:

Several maintenance concepts were developed in different parts of the world that are usually based on cultural and philosophical backgrounds. These trends encompass other strategies and technologies of maintenance. Some of these concepts are briefly introduced below:

- * Total Productive Maintenance
- * Reliability Centered Maintenance
- * Maintenance Strategies

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Question - 23:

Tell us what do you get out of engineering that you couldn't get from any other kind of work?

Ans:

You could talk about one engineering achievement that you are especially proud of, or you could explain how day-to-day aspects of the work stimulate you. If it is the latter, you should again tailor this to the role for which you are interviewing.

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Question - 24:

Tell us what Is Maintenance And Manufacturing?

Ans:



Maintenance is one of the major activities in manufacturing as it highly influences production quality and quantity and directly affects production cost and customer satisfaction. As new manufacturing technologies emerge and global communication advances, new maintenance practices are developed to cope with these changes.

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Question - 25:

Explain me on your last project assignment, what problems did you identify that had been previously overlooked?

Ans:

This is an ideal opportunity to depict several key qualities such as attention to detail, effective communication and creative thinking. You should come to the interview prepared with an example.

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Question - 26:

Please explain what Are The Main Advantage Of Fms?

Ans:

The main advantage of FMS is its high flexibility in managing manufacturing resources. The resulting gains are numerous including:

- * Reduced manufacturing cost,
- * Greater labor productivity,
- * Greater machine efficiency,
- * Improved quality,
- * Increased system reliability,
- * Shorter lead times.

However, FMS implementation requires a large initial capital and substantial preplanning. It also requires high skilled labor.

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Question - 27:

Do you know what happens if gasoline is used in a Diesel engine? Diesel engine will work?

Ans:

No, It will not work, as the Compression ratio of Petrol engine is 6 to 10 & that of Diesel engine is 15 to 22. Thus on such high compression, gasoline gets highly compressed & it may blast.

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Question - 28:

Explain me what Are The Elements Of Tpm?

Ans:

There are seven major elements of TPM as follows:

- * housekeeping on the production line,
- * cross-training of operators to perform maintenance tasks,
- * teams of production and maintenance personnel,
- * operator involvement in the maintenance delivery system,
- * disciplined planning of maintenance tasks,
- * information tracking of equipment and process condition and plans,
- * Schedule compliance to the maintenance plan.

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Question - 29:

Tell us what is project estimation?

Ans:

It is a process to estimate various aspects of software product in order to calculate the cost of development in terms of efforts, time and resources. This estimation can be derived from past experience, by consulting experts or by using pre-defined formulas.

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Question - 30:

Tell us what are Cutting Plane Lines?

Ans:

These are thick lines used to indicate the location of cutting planes in sectioning and the viewing position of removed pieces.

[View All Answers](#)

Question - 31:

Please explain what Is Total Productive Maintenance?

Ans:

Total Productive Maintenance (TPM) is developed from the preventive maintenance methodology introduced from the USA and further developed and implemented in many Japanese companies since 1971. It is then spread throughout the world.

TPM is defined as a system of maintaining and improving the integrity of production and quality systems through the machines, equipment, processes and employees that add business value to the organization. Total Productive Maintenance (TPM) is a proactive and cost-effective approach to maximize equipment effectiveness using the principles of teamwork, empowerment, 'zero breakdowns' and 'zero defects'.

[View All Answers](#)

**Question - 32:**

Explain me what is Representative Fraction?

Ans:

It is the ratio of drawing to the object. $R.F = \text{Length of the object in the drawing} / \text{Actual length of the object}$.

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Question - 33:

Tell us what Is Maintenance In Manufacturing?

Ans:

Maintenance in the manufacturing environment is one of the most complicated types of maintenance in comparison to construction, transportation and service business. Manufacturing is becoming highly competitive with extremely high pressure in reducing cost and increasing value of assets and improving the quality of outcomes (products). Manufacturing systems has grown over the years to be parts of global networks and supply chains. All of these changes in the manufacturing business have put maintenance in a great pressure on developing more effective and efficient operations.

Other special feature of manufacturing environment that makes it distinct from other environment is its complicated interrelation with large number of stakeholders, internal and external. The management structure in manufacturing environment is usually highly structured with many several decision layers and many parallel functional areas.

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Question - 34:

Tell us what is Engineering Drawing?

Ans:

A drawing which is worked out an engineer for the engineering purpose is known as Engineering Drawing.

[View All Answers](#)

Question - 35:

Tell us what are the precautions to be taken to avoid fire?

Ans:

- 1) The buckets along with sand should be placed inside the workshop.
- 2) Switches and other electrical parts must be made of fireproof material.
- 3) Carbon dioxide gas should be place at required points in special containers.
- 4) Fire extinguishers of suitable type should be placed at accessible places.

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Question - 36:

Explain me what safety precautions should be observed while working in the workshop?

Ans:

- * Keep shop floor clean, free from oil and other slippery materials.
- * Wear proper dress and avoid loose clothing and loose hair.
- * Wear shoes and avoid chapels.
- * Avoid playing, loose talk and funning inside the shop floor.
- * Keep good housekeeping and put all unnecessary items and rejected items in scrap box.
- * Learn everything about the machine before starting and clear all the doubts.
- * Keep a safe distance from rotating and sliding parts.
- * Never store inflammable materials inside or around the shop.
- * Never play with electricity, fire, parts with sharp edge etc.
- * Keep fire buckets and extinguishers ready for use.

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Question - 37:

Basic Maintenance Engineer Job Interview Questions:

Ans:

- * How do you go about allocating work to subordinates?
- * How do you ensure others have understood your instructions?
- * Imagine a manager asks you whether it's better to replace or repair a certain machine. How would you determine the answer?
- * If there was a very important repair to be done that might exceed the allocated budget, what would you do?
- * Imagine you need to create a training plan for new employees. What should they be trained in?
- * If a contractor you hired had an accident while working, what would you do?
- * What do you enjoy most in this job?
- * What kind of maintenance duties did you undertake in your previous position?
- * What does ISO 14001 refer to?
- * What's your experience with HVAC systems?
- * How familiar are you with Preventive Maintenance Regulations?
- * What's your experience with PLC?
- * Have you done electrical system repairs in the past?
- * Tell me about a time you successfully coached a maintenance technician
- * Describe a time you failed to provide good leadership. Why did that happen and what did you learn from the experience?
- * Recall a time when you had to solve a problem without input from a manager. How did you handle it and what happened in the end?
- * Give an example of a time you managed to identify and fix a problem before it became urgent
- * Tell me about a time you hired personnel (e.g. maintenance technicians). How did you go about it and what qualities did you look for?



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Question - 38:

Explain what would you consider to be your greatest success in using your skills to solve an engineering problem?

Ans:

Draw upon a specific example - one that showcases your strengths as an engineer, such as the ability to think on your feet.

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Question - 39:

Explain me what Are The Controlling Activities Of Maintenance Management Include?

Ans:

Controlling activities of maintenance management include the following:

- * Work Control
- * Inventory Control
- * Cost Control
- * Quality Control.

Work control is done using work order system in an integrated data base system for controlling reporting and analyzing. Intelligent maintenance systems are developed and integrated with ERP systems are commonly used and proven to be efficient and effective.

Inventory control is an important element of maintenance management that ensures the availability of spare parts and tools in the right quantity at the right time. Ordering and re-ordering quantities taking into consideration costs and lead times are built into automated information systems to assist management in this task by raising red flags at reorder points.

Cost control involves tracing all cost components of maintenance activities that include direct maintenance costs, lost production, equipment degradation, backups, and over maintenance costs.

Quality control of maintenance work involves assuring that the maintenance work is following standards and producing the expected results. Control is done by the supervision and testing final outcomes following a predetermined control procedure.

[View All Answers](#)

Question - 40:

Tell us what is a lettering?

Ans:

Lettering is the presentation of information data on a drawing.

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Question - 41:

Explain me what is a sketching?

Ans:

This is freehand expression of the graphic language.

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Question - 42:

Explain me what personal characteristics do you feel are necessary to be a successful engineer?

Ans:

Choose three or four characteristics and expand on why you think they're important. You could also describe how a previous manager of yours displayed these qualities to good effect and how you learned from that example.

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Question - 43:

Tell me what is software engineering?

Ans:

Software engineering is an engineering branch associated with software system development.

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Question - 44:

What are the following lines used in Engineering drawing

- (a) Dimension Lines
- (b) Extension Lines
- (c) Leaders?

Ans:

Dimension lines are the thin lines used to indicate extents and direction of dimension. These are terminated with arrowheads.

Extension lines are also thin lines and it used to indicate the termination of a dimension.

Leaders are used to direct notes or identification symbols to feature on the drawing.

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Question - 45:

Explain me why entropy decreases with the increase in temperature?



Ans:

$ds = dQ/T$ Entropy is inversely proportional to the temperature so as temp. increases, entropy decreases.

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Question - 46:

Explain me what is Maintenance Philosophy?

Ans:

Maintenance philosophy is the step of designing on the general maintenance concept selected from known best practices as the maintenance philosophy for the organization. Total productive maintenance and reliability based maintenance concepts are two widely spread concepts. The selected concept is supported with right combinations of maintenance strategies such as preventive maintenance, condition based maintenance, and shutdown maintenance.

[View All Answers](#)

Question - 47:

Do you know what is FMS?

Ans:

The most flexible and responsive to changes manufacturing system is the flexible manufacturing system (FMS). It absorbs sudden large scale changes in production volume, capacity and capability. FMS produces a product just like intermittent manufacturing and is continuous like continuous manufacturing.

[View All Answers](#)

Question - 48:

Do you know what are the functions of a scale?

Ans:

- (a) To measure distance accurately.
- (b) For making drawing to scale either in full size, reduced size or enlarged size.

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Question - 49:

Explain me what new engineering specialty skills have you developed during the past year?

Ans:

Detail any particular skills that you developed whilst at university and describe how you obtained them. Finish up talking about your willingness to learn.

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Question - 50:

Tell us when did you start your job search? Have you been offered any positions?

Ans:

Be relaxed and explain that you are looking for a company and role with the right fit, and that you are quite choosy when it comes to finding the 'right job'. You may then need to answer what you believe the 'right job' entails.

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Question - 51:

Can you define Ellipse?

Ans:

It is a plane curve formed by a point moving so that the sum of its distances from two fixed points (foci) is constant and equal to major axis.

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Question - 52:

Please explain what are the Primary Principles Upon Which RCM is Based?

Ans:

The primary principles upon which RCM is based are the following:

- * Function oriented. It seeks to preserve system or equipment function.
- * Device group focused. It is concerned with maintaining the overall functionality of a group of devices rather than an individual device.
- * Reliability centred. It uses failure statistics in an actuarial manner to look at the relationship between operating age and the failures. RCM is not overly concerned with simple failure rate; it seeks to know the probability of failure at specific ages.
- * Acknowledges design limitations. Its objective is to maintain the inherent reliability of the equipment design, recognizing that changes in reliability are the province of design rather than maintenance. Maintenance can only achieve and maintain the level provided for by design.
- * Driven by safety and economics. Safety must be ensured at any cost; thereafter, cost-effectiveness becomes the criterion.
- * Defines failure as any unsatisfactory condition. Therefore, failure may be either a loss of function (operation ceases) or a loss of acceptable quality (operation continues).
- * Uses a logic tree to screen maintenance tasks. This provides a consistent approach to the maintenance of all kinds of equipment.
- * Tasks must be applicable. The tasks must address the failure mode and consider the failure mode characteristics.
- * Tasks must be effective. The tasks must reduce the probability of failure and be cost effective.
- * Acknowledges two types of Maintenance tasks and Run-to-failure. The tasks are Interval (Time- or Cycle-) Based and Condition-Based. In RCM, Run-to-Failure is a conscious decision and is acceptable for some equipment.
- * A living system. It gathers data from the results achieved and feeds this data back to improve future maintenance. This feedback is an important part of the Proactive Maintenance element of the RCM program.



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Question - 53:

Tell us what Are The Key Objectives Of Total Productive Maintenance (tpm)?

Ans:

Some of the key objectives of TPM are:

- * Focus and improve people management to minimize the targeted losses.
- * Develop the policy, strategy and early management activities to ensure easy maintenance of the equipment.
- * Develop the autonomous maintenance system to empower the production operators to take care of the conditions and effectiveness of the equipment.
- * Develop a planned maintenance of the machine and equipment.
- * Provide training and education to the operators and maintenance personnel to upgrade their equipment-related knowledge and skills.
- * Establish safety practices and also prevent adverse environmental effects.
- * Reduce the wastage of organizational resources.

[View All Answers](#)

Question - 54:

Tell us what Are The Responsibility Of Maintenance Management Includes?

Ans:

The organizing responsibility of maintenance management includes:

- * Job design
- * Time standards
- * Project management.

Job design involves defining for each major maintenance job, the work content, the method of maintenance the required skills and the needed tools.

Time standards are determined for major components of major maintenance jobs following the scientific approach. This helps in controlling maintenance tasks and efficient utilization of resources. It is also useful for planning and scheduling maintenance activities and forecasting workload.

Project management is used for optimizing and controlling major complex time consuming maintenance operations, such as shutdown maintenance projects for large plants. Critical Path Method (CPM) and Program Evaluation and Review (PERT) are common project management tools.

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Question - 55:

Tell us why Gothic style lettering is universally used in industry?

Ans:

Because it is more legible than other styles.

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Question - 56:

Please explain what Is Maintenance Management?

Ans:

The main decisive factor for maximizing manufacturing asset value in terms productivity, reliability, cost, etc. is maintenance management, the body of the organization that is in charge of planning, implementing, controlling, and improving maintenance activities. Maintenance management is often considered as a centralized functional unit within the overall organizational structure in parallel with other functional units such as, production, Decentralized maintenance units is another common structure adopted by large organizations with multiple production units. The decision of adopting centralized or decentralized management structure is usually mad at the high management level taking into consideration, the size of the organization, the complexity of its operations, and the organization culture.

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Question - 57:

Please explain what Is The Role Of Maintenance In Maintaining?

Ans:

The role of maintenance in maintaining asset value over time is getting more visible at the business level with the increase in its acquisition and maintenance costs. Various manufacturing systems are introduced along with their distinctive features that influence maintenance strategies and practices.

[View All Answers](#)

Question - 58:

Do you know what are the methods of extinguishing fire?

Ans:

- * 1) Starvation. Separating or removing the burning material from the neighbour hood of the fire.
- * 2) Blanketing. Preventing the air flow to the fire.
- * 3) Cooling. Lowering the heat created by burning materials.

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Question - 59:

Explain me an experience with a difficult client. How did you handle the situation?

Ans:

Your answer should include: the way you listened to what the client had to say, confirmed an understanding of their concerns and subsequently took responsibility to resolve the situation by offering a solution, without going into too much detail about the specific complaint.

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Question - 60:

Tell us where do you see yourself ten years from now as Maintenance Engineer?

Ans:

You should research a career path that would flow from the position for which you are interviewing and ensure that you emphasise the intention to master the demands of that position first.

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