

MECHANICAL ENGINEERING DRAWING VIVA QUESTIONS

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What are the important questions in engineering drawing?

Is mechanical engineering drawing hard? Technical drawing was very hard yes, specially for me, but at least for constructed drawings you'll use tools and even CAD softwares, so don't worry about it. Even for freehand sketches they won't be so strict as you will not be using any tools; it's just sketches, as the name says.

Can I do mechanical engineering if my drawing is poor? But bad drawings will make you look like a bad engineer, and parts made from them are sure to have problems. In addition, many machine shops refuse to quote jobs that have bad drawings, because nothing is more disruptive to them than having to call the engineer for missing dimensions or clarification.

What is the standard size of drawing sheet according to ISI and which is suitable for drawing work? ISO Standard The most common drawing sheet sizes in engineering are; A0 (841 mm x 1189 mm) A1 (594 mm x 841 mm) A2 (420 mm x 594 mm)

What are the Viva questions asked in engineering drawing?

What are 3 reasons engineers use drawings?

How to interpret drawings?

What are the techniques of mechanical drawing? There are two common styles of mechanical drawing – pictorial and orthographic drawings. information about the object in one view. Styles of pictorial representation include isometric, oblique, and

perspective drawings, with isometric projection being the most common.

What is the difference between technical drawing and mechanical drawing?

Sketching technical drawings is the single most important technical communication skill for working in many technological fields. Mechanical drawings are more accurate and are used for final drawings. They take much longer to produce and require a high degree of technical skill.

What is the ISO standard for drawings? ISO 128 is an international standard (ISO), about the general principles of presentation in technical drawings, specifically the graphical representation of objects on technical drawings.

When to use typ in drawings? The TYP. or Typ. in a construction drawing refers to "Typical". TYPICAL or TYP indicates the number of places the geometry feature or dimension appears on a drawing. This is used when similar features are available and to avoid unnecessary dimensioning in the drawing.

What is the ASME Y14 35? ASME Y14. 35, Revision of Engineering Drawings and Associated Documents, was adopted on October 20, 1997 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Commander, U.S. Army ARDEC, ATTN: RDAR-EIQ-SE, Picatinny Arsenal, NJ 07806-5000.

Is code for lettering? IS 9609 (Part 1) :1983 'Lettering for technical drawings: Part 1 English lettering (first revkion)' which is identical with ISO 3098-1 :1974 was adopted by the Bureau of Indian Standards in 1983.

What size is ISO format?

What is the difference between ISO and ANSI drawing sizes? The dimensions have different syntax in both standards as 3X ? 1.000 wherein ISO and 1.000 DIAM 3 PLACES in ANSI. In consideration of units and sizes, ISO standard uses millimeters according to ISO A Series whereas ANSI standard uses inches under ASME Y14. 1 in various drawing sizes given on the table.

What are the basic Viva questions?

How many types of drawings are there in mechanical engineering? Mechanical engineering drawings can be divided into four main categories: general arrangement drawings, detail drawings, assembly drawings, and auxiliary views. General arrangement drawings show the overall design of a machine or device and are used when there are many parts that need to be shown.

What are two types of drawings used in engineering?

How to read drawing in mechanical?

How do mechanical engineers use drawings? Engineering drawings are highly technical documents that provide detailed information on objects, structures, machinery, and products. Designers and engineers use these documents to refine designs, to develop 3D digital models, and to construct physical objects.

What font is used in engineering drawings? With the goals of legibility and uniformity, styles are standardized and lettering ability has little relationship to normal writing ability. Engineering drawings use a Gothic sans-serif script, formed by a series of short strokes.

How to review mechanical drawings?

What are the 7 types of lines in technical drawing?

What is tolerance in engineering drawing? Tolerance is the total amount a dimension may vary and is the difference between the upper (maximum) and lower (minimum) limits. Because it is impossible to make everything to an exact size, tolerances are used on production drawings to control the parts.

What are mechanical drawings called? It is also known as an engineering drawing. The function of mechanical drawing is to accurately and thoroughly identify all the machine component's geometric features. It contains various orthographic views to convey all the product information to the manufacturer to produce that product.

What are the tools used in mechanical drawing?

What are the skills of mechanical drawing? An accurate mechanical drawing must do two things: it must show all lines, curves, and circles in their true length and in their exact relation to each other; and it must describe a three-dimensional object—one that has length, width, and depth—in two dimensions on the drawing paper.

What is the most important part of an engineering drawing? On every engineering drawing, there are a few must-haves, including: Dimensions and tolerances: Include any dimensions and tolerances that are necessary for producing the part in your drawing. For CNC parts, it is customary to include all of the part's dimensions in the drawing.

What questions to ask about drawing?

What are the importance of engineering drawings? Engineering drawings are used to communicate design ideas and technical information to engineers and other professionals throughout the design process. An engineering drawing represents a complex three-dimensional object on a two-dimensional piece of paper or computer screen by a process called projection.

What information should be on an engineering drawing? An engineering drawing provides details such as first angle projections, hidden lines, extension lines, etc., which are crucial for precise manufacturing. They include cross-sectional views or an auxiliary view that reveal hidden features and internal details, which a 3D model alone cannot fully convey.

What are the 7 types of lines in technical drawing?

How to understand mechanical drawings? Understanding mechanical drawings involves knowing what third-angle projection means. Third-angle projection tells an engineer that the top view of the product comes above the front view, and the right-side view is drawn to the right side of the elevation.

What are the five major lines used in engineering drawing?

What are the basic knowledge of drawing?

What is the most common support for drawing? The most common support for drawing is paper, although other materials, such as cardboard, vellum, wood, plastic, leather, canvas, and board, have been used. Temporary drawings may be made on a blackboard or whiteboard.

What is important when drawing? Basic drawing skills include simplifying shapes, drawing contours, and understanding light and shade. Learning to break down complicated shapes into the simplest forms and rebuilding them, will result in accurate proportions and perspective.

How many types of engineering drawings are there? There are more than 15 types types of drawing used in civil engineering. No building construction project can completed without using civil engineering drawing. Drawing include plan, Elevation, section and detailed drawing. For every work on site there is drawing prepared to property execute the work as required.

What are the four basic components of an engineering drawing?

What is the primary purpose of an engineering drawing? An engineering drawing is a subcategory of technical drawings. The purpose is to convey all the information necessary for manufacturing a product or a part. Engineering drawings use standardised language and symbols. This makes understanding the drawings simple with little to no personal interpretation possibilities.

What is the ISO standard for mechanical drawings? ISO 128 is an international standard (ISO), about the general principles of presentation in technical drawings, specifically the graphical representation of objects on technical drawings.

What is ISO drawing? By Rose Barfield 6 min May 19, 2019. Isometric drawing is a particular drawing style where the angle between the x, y, and z axes are all 120°, and there is no perspective. An isometric drawing is a pictorial representation of an object in which all three dimensions are drawn at full scale.

What are the four types of technical drawings?

Statistics for Food Scientists: Making Sense of the Data

Q: Why are statistics important for food scientists? A: Statistics enable food scientists to analyze data, draw conclusions, and make informed decisions. They help quantify uncertainty, identify trends, and optimize food products and processes.

Q: How can statistics help food scientists ensure food safety and quality? A: Statistical methods can detect outliers, identify contamination risks, and establish quality control measures. They support decision-making on food safety standards, ingredient specifications, and shelf life assessments.

Q: How can statistics help food scientists develop new products and improve existing ones? A: Statistics enable the analysis of sensory data, consumer preferences, and market trends. They guide the formulation of new products, optimize production processes, and improve product quality and appeal.

Q: What statistical techniques are commonly used in food science? A: Food scientists use various statistical techniques, including descriptive statistics, hypothesis testing, regression analysis, and multivariate analysis. These methods help analyze data, draw inferences, and identify relationships.

Q: How can food scientists interpret and communicate statistical results effectively? A: Effective communication of statistical results requires clarity and precision. Food scientists should use clear language, appropriate graphical representations, and statistical significance tests to convey their findings. Additionally, the limitations and assumptions of the statistical models should be clearly communicated.

Unfolding the Napkin: A Hands-On Method for Solving Complex Problems with Simple Pictures

By Dan Roam, December 2009

What is the "Unfolding the Napkin" method?

The "Unfolding the Napkin" method is a visual problem-solving technique that uses simple drawings to break down complex problems into manageable chunks. It was developed by author and consultant Dan Roam, who published a book on the method in 2009.

How does the method work?

The method involves six steps:

1. **Draw the problem:** Sketch out the problem statement in a simple drawing.
2. **Identify the key elements:** Mark the main elements of the problem on the drawing.
3. **Find the connections:** Draw lines to show how the elements are related.
4. **Simplify the model:** Remove unnecessary details and focus on the essential elements.
5. **Generate solutions:** Use the drawing to explore different solutions to the problem.
6. **Take action:** Choose a solution and implement it.

What are the benefits of the method?

The "Unfolding the Napkin" method offers several benefits, including:

- **Improved understanding:** The drawings help to visualize the problem and make it easier to understand.
- **Enhanced communication:** The drawings can be used to communicate the problem and its solution to others.
- **Increased creativity:** The visual nature of the method encourages out-of-the-box thinking.
- **Greater efficiency:** The method can help to identify the root cause of a problem and develop effective solutions more quickly.

Who can use the method?

The "Unfolding the Napkin" method is suitable for people of all backgrounds and skill levels. It can be used by individuals, teams, and organizations to solve complex problems in a variety of settings, including business, education, and engineering.

How can I learn more about the method?

Roam's book, "Unfolding the Napkin: The Hands-On Method for Solving Complex Problems with Simple Pictures," provides a detailed guide to the method. The book

includes numerous examples and exercises to help you apply the method to your own problems.

The DevOps Handbook: Unlocking World-Class Agility, Reliability, and Security

What is DevOps?

DevOps is a collaborative approach to software development that bridges the gap between development and operations teams. By bringing together the expertise of both worlds, DevOps aims to deliver software faster, more reliably, and with higher quality.

What are the benefits of DevOps?

DevOps can have significant benefits for technology organizations, including:

- Faster time-to-market for new features and products
- Improved reliability and stability of software applications
- Reduced costs through automation and optimization
- Enhanced security by leveraging best practices and tools

How can I implement DevOps in my organization?

The DevOps Handbook is a comprehensive guide to implementing DevOps principles and practices. It provides step-by-step instructions on how to create world-class agility, reliability, and security in your technology organization.

What are some common challenges faced by organizations implementing DevOps?

Common challenges include:

- Resistance from legacy teams and processes
- Lack of communication and collaboration between teams
- Difficulty in automating complex processes
- Concerns over security and compliance

How can I overcome these challenges?

The DevOps Handbook offers guidance on overcoming these challenges. For example, it suggests fostering a culture of trust and collaboration, investing in automation tools, and using industry-standard security practices.

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