

PLTW IED Final Exam Study Guide With 100% Complete Solution 2024

How might we create the best possible solution to a problem? - Correct Answer-Engineers try to think "outside the box" in order to solve new problems or find ways to improve current solutions.

What is the most effective way to generate potential solutions to a problem? How many alternate solutions should you generate? - Correct Answer-Brainstorming with a group, research and testing possible solutions

What is an engineer? What types of work do engineers do? - Correct Answer-Engineering is the application of mathematics and scientific principles to better or improve life. An engineer is a person who is trained in and uses technological and scientific knowledge to solve practical problems. Research, Develop, Design, Supervise, Manage, Production and Construction, operations, plant management, and sales

Why Keep an Engineering Notebook? - Correct Answer-An engineering notebook is recognized as a legal document that is used in patent activities to...

Prove the origin of an idea that led to a solution

Prove when events or ideas occurred

Prove diligence in turning the idea into a solution

Prove when an idea became a working solution ("reduced to practice")

What are the 4 best Practices for the Engineering Notebook? - Correct Answer-Be Neat,

be Accurate,

be Legible,

be Thorough

Explain the concept of proportion. - Correct Answer-Paying close attention to the underlying basic shapes and the relative proportions of various features of the object will allow you to more accurately reflect the true shapes and proportions of the object in your sketch

Why would the ability to create realistic sketches make a person a more competent designer - Correct Answer-Representing existing objects and new ideas with sketches can make the design process more effective and efficient and greatly enhance the ability of others to understand your ideas. Allows them to communicate their ideas more clearly.

What is the purpose of sketching your ideas? - Correct Answer-Sketches provide a means through which one can quickly and clearly communicate ideas

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