

Fusion360 Certification Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

SAMPLE

- 1. True or False: The timeline marker in Fusion 360 is always at the end and cannot be moved.**
 - A. True**
 - B. False**
 - C. It can be moved but not deleted**
 - D. It can be positioned anywhere in the timeline**
- 2. Which statement is accurate regarding the application of materials on components?**
 - A. Materials must be applied at the body level**
 - B. Materials can only be applied to components**
 - C. Materials can be assigned at both body and component levels**
 - D. Components do not have material properties**
- 3. Can the visibility of section analysis be controlled through the browser in Fusion 360?**
 - A. No, it must be turned off in the timeline**
 - B. Yes, it can be turned off from the browser**
 - C. Only the model view controls visibility**
 - D. Visibility can be set, but not adjusted afterwards**
- 4. What workspace would you use to perform CAM operations in Fusion 360?**
 - A. Design**
 - B. Render**
 - C. Manufacture**
 - D. Animation**
- 5. What is the purpose of the "Explore" tool in Fusion 360?**
 - A. To visualize component relationships in complex assemblies.**
 - B. To analyze the forces acting on the model.**
 - C. To create a simulation of product failures.**
 - D. To document design changes throughout development.**

- 6. How do you add a chamfer to an edge in Fusion 360?**
- A. By selecting the edge and choosing the "Fillet" tool from the features menu.**
 - B. By selecting the edge and choosing the "Bevel" tool from the features menu.**
 - C. By selecting the edge and choosing the "Chamfer" tool from the features menu.**
 - D. By modifying the edge dimensions in the properties panel.**
- 7. What command allows you to extend a line in a sketch?**
- A. The "Extend" tool**
 - B. The "Trim" tool**
 - C. The "Length" command**
 - D. The "Scale" function**
- 8. What are Fusion 360's "parameters" used for?**
- A. To simplify file sharing.**
 - B. To define and control dimensions that can affect the design.**
 - C. To add textures and colors to a design.**
 - D. To automate the simulation process.**
- 9. Centerlines indicate symmetry for features such as holes. True or False?**
- A. True**
 - B. False**
 - C. Only in 3D views**
 - D. Only in 2D views**
- 10. What does the "Join" option do when using the Extrude function?**
- A. It creates a separate body from the original geometry.**
 - B. It merges the extruded shape with existing geometry.**
 - C. It subtracts the extruded shape from existing geometry.**
 - D. It duplicates the extruded shape in a new location.**

Answers

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1. B
2. C
3. B
4. C
5. A
6. C
7. A
8. B
9. A
10. B

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Explanations

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1. True or False: The timeline marker in Fusion 360 is always at the end and cannot be moved.

A. True

B. False

C. It can be moved but not deleted

D. It can be positioned anywhere in the timeline

The statement regarding the timeline marker in Fusion 360 is false because the timeline marker is indeed movable. In Fusion 360, the timeline serves as a means for organizing and managing the various operations and features applied to your design. Users can click and drag the timeline marker to reposition it at different points within the timeline. This functionality is crucial for managing design changes and conducting parametric modeling effectively. By moving the marker, users can revisit previous steps to make adjustments or analyze how earlier modifications affect the overall design. Therefore, the ability to reposition the timeline marker enhances the flexibility and control users have over their design processes in Fusion 360.

2. Which statement is accurate regarding the application of materials on components?

A. Materials must be applied at the body level

B. Materials can only be applied to components

C. Materials can be assigned at both body and component levels

D. Components do not have material properties

The chosen statement accurately reflects the functionality within Fusion 360, where materials can indeed be applied at both the body and component levels. This flexibility allows users to specify different materials for individual bodies within a component, enabling a more detailed and precise representation of the design. For instance, in a single assembly, one component could be made of metal while another might use plastic, catering to specific design requirements or functional needs. Assigning materials at the body level allows for distinct material properties to be defined for each part, which is crucial for simulations and analysis. By having this capability, you can conduct accurate mechanical simulations, thermal analyses, and other evaluations that rely on the material properties of each body. Additionally, applying materials at the component level is useful for situations where a uniform material is suitable for the entire component. The other options do not encompass the comprehensive capabilities offered in the software. For instance, suggesting that materials must be applied only at the body level does not consider the broader application options available. Limiting material assignment to components ignores the granularity and detailed capabilities necessary for more complex assemblies. Finally, stating that components do not have material properties overlooks fundamental features that enable users to carry out detailed engineering analysis. Overall, option C effectively summarizes the versatile approach to material

3. Can the visibility of section analysis be controlled through the browser in Fusion 360?

- A. No, it must be turned off in the timeline**
- B. Yes, it can be turned off from the browser**
- C. Only the model view controls visibility**
- D. Visibility can be set, but not adjusted afterwards**

The ability to control the visibility of section analysis through the browser in Fusion 360 is indeed an important feature for users working on complex models. This functionality allows you to quickly toggle the visibility of section analysis without having to return to the timeline where it was initially created. In the Fusion 360 interface, each analysis, including section analysis, is listed in the browser panel. By simply clicking on the visibility icon next to the section analysis item in the browser, users can easily turn it on or off. This flexibility enhances workflow efficiency, allowing you to focus on different aspects of your design without having to modify the timeline directly every time there's a need to adjust visibility. This option stands out because it integrates seamlessly into the user experience, enabling precise control over what aspects of the model are visible, thus making it easier to communicate and visualize changes as design work progresses. Thus, controlling section analysis visibility through the browser is a highly useful feature for effective model management in Fusion 360.

4. What workspace would you use to perform CAM operations in Fusion 360?

- A. Design**
- B. Render**
- C. Manufacture**
- D. Animation**

The workspace specifically designed for performing CAM (Computer-Aided Manufacturing) operations in Fusion 360 is the Manufacture workspace. This environment focuses on tools and features tailored for creating toolpaths, generating NC code, and simulating machining operations. In the Manufacture workspace, users can define operations such as milling, turning, and additive manufacturing, making it essential for preparing designs for fabrication. In this workspace, you have access to features that allow you to set up the tool, the workpiece, and the machining strategy, among other essential components of the CAM process. The tools available are optimized for creating precise and efficient manufacturing processes, streamlining the transition from a 3D model to a finished part. The other workspaces serve different purposes; for instance, the Design workspace is focused on the creation and modification of 3D models, the Render workspace enhances visual presentation through photorealistic rendering, and the Animation workspace is used for creating visual animations to illustrate the assembly or movement of components. None of these provide the necessary tools for generating toolpaths or managing manufacturing processes, which is why they are not suited for CAM operations.

5. What is the purpose of the "Explore" tool in Fusion 360?

- A. To visualize component relationships in complex assemblies.**
- B. To analyze the forces acting on the model.**
- C. To create a simulation of product failures.**
- D. To document design changes throughout development.**

The "Explore" tool in Fusion 360 is specifically designed to help users visualize component relationships in complex assemblies. This tool enables users to navigate through their designs in a more intuitive way, allowing them to understand how different components interact with each other. It can display the hierarchy and connections between parts, making it easier for designers to identify potential assembly issues or to analyze the overall structure of their model. The other options address different functionalities that do not pertain specifically to the visual exploration of component relationships. For instance, analyzing forces acting on a model pertains to simulation tools, which focus on performance and structural integrity, rather than component visualization. Creating simulations of product failures is also linked to specific analysis features, rather than the exploration of component relationships. Documenting design changes refers to version control and tracking modifications in design history, which is a different aspect of the design process altogether. Thus, the correct choice highlights the key functionality of the "Explore" tool in understanding component interactions within assemblies.

6. How do you add a chamfer to an edge in Fusion 360?

- A. By selecting the edge and choosing the "Fillet" tool from the features menu.**
- B. By selecting the edge and choosing the "Bevel" tool from the features menu.**
- C. By selecting the edge and choosing the "Chamfer" tool from the features menu.**
- D. By modifying the edge dimensions in the properties panel.**

To add a chamfer to an edge in Fusion 360, the process involves selecting the edge you want to modify and then activating the "Chamfer" tool from the features menu. This tool is specifically designed to create a beveled edge, providing the capability to adjust the angle and distance of the chamfer according to your design requirements. The "Chamfer" feature effectively removes sharp corners and can also enhance the aesthetic appeal of the model, while contributing to detailed assembly processes by ensuring proper fit and alignment of components. The other options do not accurately describe the process for adding a chamfer. The "Fillet" tool is used for rounding edges and would not create a chamfer, which is defined by straight edges at an angle. The "Bevel" tool may sound similar but is not a standard terminology used within Fusion 360 for this specific action, as it commonly pertains to 2D operations. Modifying edge dimensions in the properties panel does not provide the functionality to create a chamfer; instead, it deals with editing dimensions but not the actual geometry modifications needed for chamfering. Thus, selecting the "Chamfer" tool is the precise method to achieving the desired result.

7. What command allows you to extend a line in a sketch?

- A. The "Extend" tool**
- B. The "Trim" tool
- C. The "Length" command
- D. The "Scale" function

The "Trim" tool is usually associated with editing sketches by removing excess geometry, but its function also allows for maintaining or adjusting line lengths indirectly. When you use the "Trim" tool, you can manipulate the endpoints of lines, effectively extending them by removing portions of overlapping or intersecting lines. This capability is useful in creating precise geometry where certain lines need to be longer to intersect with other elements in the sketch. The "Extend" tool is not a standard command in Fusion 360 for sketching; there is no direct option used to specifically extend lines in a sketch. The "Length" command pertains more to dimensioning rather than actual geometric manipulation, and "Scale" is a transformation that changes the size of an object uniformly but does not specifically focus on extending individual lines. Thus, the selection of the "Trim" tool is based on its unique versatility in modifying sketches effectively.

8. What are Fusion 360's "parameters" used for?

- A. To simplify file sharing.
- B. To define and control dimensions that can affect the design.**
- C. To add textures and colors to a design.
- D. To automate the simulation process.

Parameters in Fusion 360 are essential for defining and controlling dimensions that can impact the design. They allow designers to create a more flexible and adaptive model, making it easier to enact changes. By establishing parameters for key measurements such as length, width, height, angles, and other dimensions, users can quickly update the entire model with new values. This ability to change one parameter and have it ripple through the entire design significantly enhances efficiency and accuracy in modeling. For instance, if a designer sets a parameter for the height of a component, adjusting that parameter will automatically update related features that depend on that height, ensuring that the model remains consistent and accurate. This feature supports design iterations and variations without the need to manually adjust every dimension each time a change is made. Regarding the other options, simplifying file sharing involves different tools and features in Fusion 360 that are not directly related to parameters. Adding textures and colors pertains to the aesthetic qualities of a design rather than its dimensions and constraints. Automating the simulation process involves specific simulation tools and settings, separate from the parameter management aspect of design.

9. Centerlines indicate symmetry for features such as holes. True or False?

A. True

B. False

C. Only in 3D views

D. Only in 2D views

Centerlines indeed indicate symmetry for features such as holes, which is essential in both 2D and 3D modeling. When creating designs, particularly those involving holes or other symmetrical features, centerlines help convey that these features are mirrored along a specified axis. This is crucial for correctly dimensioning and aligning components in assemblies, ensuring that parts fit together as intended. In 2D drawings, centerlines are often used to visually represent the symmetry of features, helping engineers and manufacturers understand the layout and balance of the design without needing additional notes or explanations. In 3D modeling, while centering features visually aligns them, the concept of symmetry still holds, and the centerlines can guide the creation of mirrored features. Therefore, the assertion that centerlines indicate symmetry for features such as holes is accurate and reflects an important principle in design and drafting practices.

10. What does the "Join" option do when using the Extrude function?

A. It creates a separate body from the original geometry.

B. It merges the extruded shape with existing geometry.

C. It subtracts the extruded shape from existing geometry.

D. It duplicates the extruded shape in a new location.

The "Join" option in the Extrude function is utilized to merge the newly created extruded shape with the existing geometry within the design. When you select "Join," the resultant body from the extrusion will become one continuous object with the original geometry that it intersects. This is particularly useful for building complex shapes as it allows for the creation of more intricate designs without fragmenting the overall structure into separate bodies. This option is essential for maintaining structural integrity and ensuring that the model behaves as a singular unit during further modifications and analyses. By merging bodies, it simplifies the design and enhances the workflow in Fusion 360, as it avoids the complications associated with managing multiple separate bodies. In contrast, creating a separate body, subtracting material, or duplicating shapes serves different functional purposes, which do not align with the intent of combining and simplifying the design using the Extrude function.