

4.1 Holding tools

Additional assessment questions

1. In an industrial manufacturing plant, a technician needs to tightly clamp together the internal moving components of a machine. Which type of clips are used across construction, manufacturing, and electrical engineering for this purpose?

- A) Spring clips
- B) Paper clips
- C) Bulldog clips
- D) Drawing board clips

2. After finishing his workshop project, Brian notices his holding tools are covered in grease, dirt, and chemicals. According to proper maintenance rules, what should he do immediately?

- A) Store them immediately in a wet toolbox
- B) Use them as a hammer to knock the dirt off
- C) Clean the tools to remove the dirt, grease, or chemicals
- D) Leave them on the floor to dry off naturally

3. Why is it important to store holding tools in a dry place like a toolbox or a rack, rather than leaving them scattered around the workshop floor?

- A) To make sure they stay magnetized
- B) To avoid rust and prevent loss or damage
- C) To allow chemicals to react with the metal
- D) To let them sharpen automatically

4. Luke needs to pull a stubborn nail out of a piece of wood. He cannot find a hammer, so he decides to use his laboratory tongs to violently pry it out. Why is Luke's decision incorrect?

- A) Tools should only be used for their intended purpose; pliers or tongs should never be used as hammers or prying tools.
- B) Laboratory tongs are only meant to be used for holding large sheets of paper.
- C) He should have used a paper clip instead.
- D) Tongs should only be used when they are covered in grease.

5. Before starting her daily tasks, a technician performs safety checks on her holding tools. What specific signs of wear or damage should she look for on the handles and jaws?

- A) Check if the tools are painted in the correct color
- B) Inspect handles for cracks/looseness and jaws/gripping parts for wear or damage
- C) Measure if the tool is exactly 12 inches long
- D) Ensure the tool is coated in dirt before operation

6. An electrician wants to run a network wire along a wall neatly and ensure that it is permanently secured to the wall surface. Which item should they install?

- a) Identify the specialized component used to permanently secure cables and wires neatly to structural surfaces. (3 marks)
- b) Write the dangers of leaving wires hanging freely and explain how these clips enhance workshop safety by protecting electronic data and physical pathways. (4 marks)

7. In an industrial manufacturing plant, a technician needs to tightly clamp together the internal moving components of a machine.

- a) Name the heavy-duty clip used in construction, manufacturing, and telecommunications to securely clamp together structural parts of a machine. (3 marks)
- b) Why is a bulldog clip entirely unsuited for machine manufacturing? Explain your answer based on the mechanical strength needed to hold industrial parts. (3 marks)

8. After finishing his workshop project, Brian notices his holding tools are covered in grease, dirt, and chemicals.

- a) State the exact maintenance action that Brian must take before storing his tools to remove dirt, grease, or chemicals. (3 marks)
- b) If Brian ignores this step, describe the long-term chemical damage that will occur to the metal parts of the tools and explain how this impacts their performance. (4 marks)

9. It is important to store holding tools in a dry place such as a toolbox or a rack rather than leaving them scattered around the workshop floor.

- a) What is the correct storage rule for holding tools regarding where and how they should be kept preventing structural damage? (3 marks)

b) Explain how storing tools haphazardly in a wet environment causes rust and outline how proper storage helps a learner to work faster and more efficiently. (4 marks)