

Knowledge Check: Module 1 Foundations

Component: Interactive Quiz

Goal: To formally assess students' foundational knowledge from Lesson 1.1 and Lesson 1.2 and reinforce key concepts through a formative assessment.

Part A: Quiz Content and Question Design

1. (SE Definition) According to Lesson 1.1, which of the following is the most accurate definition of social engineering?

- A. The use of complex code to bypass a digital firewall.
- B. The practice of analyzing social media to improve network security.
- C. The art of manipulating people into giving up confidential information by exploiting psychological tricks.
- D. The process of building better, more secure computer hardware.

2. (Key Distinction) What is the primary way social engineering differs from a traditional technical hack?

- A. Social engineering is only used for pranks, while technical hacking is for serious crimes.
- B. Social engineering targets the human user to bypass security, while technical hacking targets vulnerabilities in software or systems.
- C. Social engineering requires advanced programming skills, while technical hacking does not.
- D. Social engineering can only be done over the phone, not through email.

3. (Psychological Bias) You receive an email with the subject line "URGENT: Your Student Portal Password Will Expire in 24 Hours!" The email appears to be from the "Registrar's Office" and demands you click a link immediately. This attack primarily uses which two principles?

- A. Liking and Social Proof
- B. Scarcity and Liking
- C. Authority and Urgency
- D. Scarcity and Authority

4. (Common Motivation) Based on the examples in the lessons (Bitcoin scam, GCash requests), what is a common motivation for social engineers?

- A. To test a company's firewall for weaknesses.
- B. To make new friends and connections online.
- C. To gain access to information or resources for personal or financial benefit.
- D. To help users become more skeptical and informed.

5. (Concept Identification) True or False: The lessons state that a strong firewall and antivirus software are enough to stop all social engineering attacks.

- A. True
- B. False

6. (Psychological Bias) A pop-up ad for a mobile game says: "🔥 FREE 1000 GEMS! 🔥 Limited to the first 500 players! Claim yours before they're gone!" This tactic relies on the principle of:

- A. Authority
- B. Liking
- C. Scarcity
- D. Social Proof

7. (Psychological Bias) You get a message on Messenger from a classmate that says, "Hey, urgent! My GCash is down, please send ₱500 to this number. I'll pay you back tomorrow!" This scam primarily exploits which psychological principle?

- A. Authority
- B. Scarcity
- C. Liking
- D. Social Proof

8. (Concept Identification) The lessons refer to social engineering as "human hacking" because it:

- A. Requires the hacker to be physically present.
- B. Can only be done by very friendly and popular people.
- C. Targets people's natural tendencies and psychology instead of computer code.
- D. Is a legal method for testing security.

9. (Key Distinction) Which of these scenarios describes a social engineering attack, as explained in the module?

- A. A hacker discovers a flaw in a website's code that allows them to access a database.
- B. A scammer calls an employee, pretends to be from the IT department, and convinces them to reveal their password.
- C. A programmer writes a script that automatically tries thousands of different passwords on a login page.
- D. A network administrator installs a new firewall to block malicious traffic.

10. (Psychological Bias) A scammer creates a fake social media post for a giveaway, using bots to add thousands of likes and comments that say "It works! I got my prize!" to convince real users to participate. This is a clear example of an attacker using:

- A. Authority
- B. Social Proof
- C. Urgency
- D. Liking

Part B: Automated Feedback and Concluding Message

Feedback for Each Question:

1. Correct (C): "Correct! Lesson 1.1 defines social engineering as 'human hacking' that uses psychological tricks to manipulate people."
Incorrect (A, B, D): "Not quite. Remember from Lesson 1.1, social engineering targets people and their psychology, not the technology itself."
2. Correct (B): "Exactly! The core idea is that social engineers bypass technology by targeting the person. It's like being convinced to hand over the key to your own house."
Incorrect (A, C, D): "Incorrect. The key difference discussed in Lesson 1.1 is the target: people vs. systems."
3. Correct (C): "That's right! This attack uses Authority (pretending to be the Registrar) and Urgency (the 24-hour deadline) to make you act without thinking, just like the example

in Lesson 1.2."

Incorrect (A, B, D): "Good try, but the main tactics here are impersonating someone in power and creating a fake deadline. Review the principles of Authority and Urgency in Lesson 1.2."

4. Correct (C): "Correct. The examples consistently show that attackers are trying to get something valuable, whether it's money, account access, or personal information."

Incorrect (A, B, D): "Incorrect. While attackers may use friendly language, their underlying motivation is typically selfish and malicious, aiming for some form of gain."

5. Correct (B): "Correct, this is false. Lesson 1.1 emphasizes that social engineering's main strength is its ability to bypass technical defenses by targeting the user directly."

Incorrect (A): "Incorrect. A key theme of Module 1 is that technical tools are not enough. Your skeptical and informed mindset is the best defense."

6. Correct (C): "Perfect! By claiming the offer is 'limited to the first 500 players,' the scam creates a sense of Scarcity to pressure you into acting quickly."

Incorrect (A, B, D): "Not this time. The feeling of 'I might miss out on a limited deal' is a direct appeal to the principle of Scarcity, as covered in Lesson 1.2."

7. Correct (C): "That's it! Because the message appears to be from someone you know and trust (a classmate), it is exploiting the principle of Liking to lower your guard."

Incorrect (A, B, D): "Not quite. The primary trick here is using a trusted relationship. You're more likely to help a friend, which is why the Liking principle is so effective for scammers."

8. Correct (C): "Yes! This is the central concept from Lesson 1.1. It's called 'human hacking' because it exploits our brains 'shortcuts' and natural tendencies."

Incorrect (A, B, D): "Incorrect. The term 'human hacking' refers to targeting human psychology, not physical presence or the hacker's personality."

9. Correct (B): "Correct! This is a classic example of social engineering where the attacker uses deception and impersonation to manipulate a person into compromising security."
Incorrect (A, C, D): "Incorrect. Options A and C are technical hacks, and D is a defensive security measure. Only B involves manipulating a person."
10. Correct (B): "Exactly! This tactic uses Social Proof to make the scam seem legitimate because 'everyone else is doing it' and appears to be winning."
Incorrect (A, C, D): "Good try, but the main factor here is the influence of the crowd (the fake likes and comments). This is a perfect example of the Social Proof principle from Lesson 1.2."

Final Message:

"Congratulations on completing the Module 1 Knowledge Check! You've successfully learned what social engineering is and the psychological principles that make it work. This knowledge is your most powerful tool in building a mental firewall.

Up next, we'll explore specific types of real-world attacks. See you in Module 2!"