Knowledge Check Quiz Related Topic Week 4 (Industrial Control Systems Security)

Due Feb 13 at 11:59pm   **Points** 12   **Questions** 12
Available until Feb 13 at 11:59pm   **Time Limit** None

Instructions

Answer the following questions on the related topic material this week.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	18 minutes	12 out of 12

Score for this quiz: **12** out of 12
Submitted Jan 21 at 2:05pm
This attempt took 18 minutes.

Question 1	**1 / 1 pts**

What is the definition of a **backdoor**?

Correct!

- ⦿ Undocumented way to gain access to a computer system

- ◯ Computer with radio interfacing used in remote situations where communications via wire is unavailable

- ◯ Type of malware that appears to perform a desirable function while allowing unauthorized access

- ◯ Used to control production systems within the same geographic location

Question 2

1 / 1 pts

What is the definition of a **Distributed Control System**?

○ Individual who possess an intimate working knowledge of computers, electronic systems and computer network

○ Undocumented way of gaining access to a computer system

Correct!

◉ Used to control production systems within the same geographic location

○ Type of malware that appears to perform a desirable function while allowing unauthorized access

Question 3

1 / 1 pts

What is the definition of a **Programmable Logic Controller**?

○ Computer with radio interfacing used in remote situations where communications via wire is unavailable

○ Type of malware that propagates from computer to computer

Correct!

◉ Have a user-programmable memory for storing instructions that implement specific functions

○

Hardware or software through which an operator interacts with a
controller

Question 4   1 / 1 pts

Which type of attack **requires knowledge of the protocol being
manipulated**?

○ Spoofing

○ Database

○ Backdoor

Correct!   ◉ Man-in-the-middle

Question 5   1 / 1 pts

Which characteristic is true for an **Industrial Control System** and not
an IT system?

○ Lifetime is on the order of 3-5 years

○ Systems are designed for use with typical operating systems

○ Non-real-time performance requirements

Correct!   ◉ Human safety is paramount, followed by protection of the process

Question 6   1 / 1 pts

Which Risk Management Process component requires that
organizations **identify their threats and vulnerabilities**?

Correct!

- ◉ Assessing

- ○ Monitoring

- ○ Responding

- ○ Framing

Question 7   1 / 1 pts

Which **ICS security architecture technique** partitions the network into
smaller networks?

- ○ Boundary Protection

Correct!

- ◉ Network Segmentation

- ○ Defense-in-Depth

- ○ Network Segregation

Question 8   1 / 1 pts

Which **ICS security architecture technique** separates the ICS from
other networks?

○ Network Segmentation

○ Defense-in-Depth

○ Boundary Protection

Correct!   ◉ Network Segregation

Question 9   1 / 1 pts

Which **ICS security architecture technique** controls the flow of information between interconnected security domains?

○ Fault Tolerance

○ Network Segmentation

Correct!   ◉ Boundary Protection

○ Network Segregation

Question 10   1 / 1 pts

Which **ICS security architecture technique** controls the flow of network traffic between networks employing differing security postures?

○ Fault Tolerance

○ Network Segmentation

○ Network Segregation

Correct!

⦿ Firewalls

Question 11

1 / 1 pts

Which **ICS security architecture technique** prevents a cascading event because failure does not cause another problem?

○ Boundary Protection

○ Firewalls

Correct!

⦿ Fault Tolerance

○ Defense-in-Depth

Question 12

1 / 1 pts

Which **ICS security architecture technique** uses two (or more) overlapping security mechanisms?

○ Network Segmentation

○ Fault Tolerance

Correct!

⦿ Defense-in-Depth

○ Boundary Protection

Quiz Score: **12** out of 12