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Date: 1/14/2020 1:53:48	8 pm	Candidate: Garsteck, Matthew
Time Spent: 8:58		Login: mGarsteck
Overall Performanc	ce	
Your Score: 73%		
		Passing Score: 80%
View results by: O	Objective Analysis   Individual	Responses
Individual Response	es	
<b>▼</b> Question 1:	<u>Incorrect</u>	
Which of the follow	ving is <b>not</b> an appropriate response	to a risk discovered during a risk analysis?
Denial		
Mitigation	<del>a</del>	
Assignme	ent	
Acceptano	ce	
Explanation		
negligent activity th		Denying risk rather than properly addressing it is a ion in court if a security breach occurs that causes
Valid responses to r	risk are acceptance, assignment, and	l mitigation.
References		
LabSim for Security [All Questions Sec	y <mark>Pro, Section 3.2.</mark> Pro2017_v6.exm RISK_MANAGE	_02]
<b>▼</b> Question 2:	<u>Correct</u>	
Which of the follow	ving best defines Single Loss Exped	ctancy (SLE)?
The mone	etary value of a single employee's lo	oss of productivity due to a successful attack
The total	cost of all countermeasures associa	ted with protecting against a given vulnerability
The statis	tical probability of a malicious even	nt
The total	monetary loss associated with a sin	gle occurrence of a threat
Explanation		
		otal monetary loss associated with a single

occurrence of a threat. The key to this definition is 'total'- all costs, including lost employee productivity, replacement hardware/software, payroll for additional consultants, etc., must be considered when calculating the total loss.

#### References

LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_03]

**▼** Question 3: Correct

What is the average number of times that a specific risk is likely to be realized in a single year?

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<ul><li>Exposure factor</li></ul>	
Annualized rate o	f occurrence
<ul><li>Estimated maxim</li></ul>	um downtime
<ul><li>Annualized loss e</li></ul>	xpectancy
Explanation	
Annualized Rate of Occurre realized in a single year.	ence (ARO) is the average number of times that a specific risk is likely to be
per-year loss due to exposu downtime or recovery time	ry (ALE) is ARO x SLE (Single Loss Expectancy), which is the estimated res. Estimated Maximum Downtime sounds similar to maximum tolerable objective, neither of which are related to the average number of times of risk is the percentage of value loss that is experienced due to an exposure, rather exposure.
References	
LabSim for Security Pro, Se [All Questions SecPro2017]	ection 3.2. _v6.exm RISK_MANAGE_04]
Question 4:	Correct
	ed and implemented countermeasures for the greatest risks to their assets. erisk left. What is the remaining risk called?
Residual risk	
Exposure	
Loss	
Risk	
Explanation	
<i>Residual risk</i> is the portion almost always be some resi	of risk that remains after the implementation of a countermeasure. There will dual risk.
	y of losses from a threat agent. <i>Risk</i> is the likelihood of a vulnerability being damages to an asset that reduces its confidentiality, integrity, or availability.
References	
LabSim for Security Pro, Se [All Questions SecPro2017]	ection 3.2. _v6.exm RISK_MANAGE_05]
Question 5:	Correct
Which of the following stat	ements is true regarding risk analysis? (Select two.)
→ ✓ Don't implement	a countermeasure if the cost is greater than loss.
The value of an as	sset is the worth of a resource to the organization excluding qualitative values.

## **Explanation**

occur in a single year.

The cost of a countermeasure should never exceed the value of the asset. Annualized Rate of Occurrence (ARO) identifies how often the successful threat attack will occur in a single year.

Exposure factor is the percent of the asset lost from an unsuccessful threat attack.

Annualized Rate of Occurrence (ARO) identifies how often the successful threat attack will

The *value* of an asset is the worth of a resource to the organization, including *both* quantitative and qualitative values. *Exposure factor* is the percent of the asset lost from a *successful* threat attack.

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#### References

LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_07]

**▼** Question 6: Correct

When would choosing to do nothing about an identified risk be acceptable?

- When the asset is an intangible asset instead of a tangible asset
- When the threat is likely to occur less than once per year
- When the cost of protecting the asset is greater than the potential loss
  - When the threat is most likely to come from an internal source instead of an external source

## **Explanation**

You might choose to accept a risk and do nothing if the cost associated with a threat is acceptable or if the cost of protecting the asset from the threat is unacceptable. For example, if the cost of protecting the asset is greater than the cost associated with the threat, you would decide to accept the potential loss rather than spend money to protect the asset. In this case, you would plan for how to recover from the threat, but not implement any measures to avoid it.

An *intangible asset* is a resource that has value and may be saleable even though it is not physical or material. While assigning a value to intangible assets can be difficult, this does not mean that they cannot or should not be protected. The likely frequency of a threat occurring affects the annual loss expectancy, which also affects the comparison of the cost of countermeasures to the cost associated with a successful attack, but does not immediately rule out implementing countermeasures.

#### References

LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_08]

**▼** Question 7:

Correct

If an organization shows sufficient due care, which burden is eliminated in the event of a security breach?

Liability

Negligence

Investigation

Asset loss

# **Explanation**

An organization with sufficient due care has shown that they have taken every reasonable effort to protect their assets and environment. If a security breach occurs, then the organization is not held negligent for the losses.

Even with a strong security solution, asset loss is always possible. Even with strong due care, an organization is still liable for damages incurred. Due care does not remove the requirement to investigate security breaches.

#### References

LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_09]

Question 8:

**Incorrect** 

You have conducted a risk analysis to protect a key company asset. You identify the following values:

- Asset value = 400
- Exposure factor = 75
- Annualized rate of occurrence = .25

What is the Annualized Loss Expectancy (ALE)?

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25					
<b>→</b> ○ 75					
<u>100</u>					
<u> </u>					
<b>475</b>					
Explanation					
To calculate the ALI	E, use the following				
formula: Asset value (AV) 400 x 75% x .25	- , ,	x Annualized Rate of Occurrence (ARO)			
References					
LabSim for Security [All Questions SecP	Pro, Section 3.2. ro2017_v6.exm RISK_M	MANAGE_10]			
Question 9:	<u>Incorrect</u>				
When conducting a	risk assessment, how is t	the Annualized Rate of Occurrence (ARO) calculated?			
Oivide the	static variable by the pr	obability index.			
Multiply th	ne Single Loss Expectan	ey (SLE) by the Annual Loss Expectancy (ALE).			
Through h	istorical data provided b	y insurance companies and crime statistics.			
Multiply th	ne Single Loss Expectan	cy (SLE) by the standard annual deviation.			
Explanation					
Historical data provi frequently obtained	des the basis for the stat from insurance compani	is the likelihood of a risk occurring within one year. istical probability of the risk occurring. This information is es, law enforcement agencies, and computer incident expressed in percent or decimal form.			
References					
LabSim for Security [All Questions SecP	Pro, Section 3.2. ro2017_v6.exm RISK_M	MANAGE_11]			
Question 10:	<u>Correct</u>				

**▼** Question 10:

Purchasing insurance is what type of response to risk?

Deployment of a countermeasure

$\Rightarrow$	Transference
	Acceptance
	Rejection

## **Explanation**

An organization can transfer risk through the purchase of insurance. When calculating the cost of insurance and the deductible, balance the cost against the expected loss from the incident.

Risk acceptance is the decision that the level of risk is acceptable. Risk rejection is choosing not to respond to the risk even though the risk is not at an acceptable level. The deployment of countermeasures entails choosing and putting into practice those countermeasures that reduce the risk to an acceptable level.

## References

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TestOut LabSim LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_12] **▼** Question 11: Correct To determine the value of the company assets, an anonymous survey was used to collect the opinions of all senior and mid-level managers. Which asset valuation method was used? Sensitivity vs. risk Delphi method Asset classification Comparative **Explanation** The delphi method uses an anonymous survey to determine the value of an asset. Anonymity promotes honesty in responses. Asset *classification* is used to identify the appropriate value and protection levels for each asset. A comparative valuation uses a ranking based on an arbitrary scale that is compatible with the organization's industry. A sensitivity vs. risk chart uses quadrants to qualify the value of an asset based on sensitivity and risk. References LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_13] **▼** Question 12: **Incorrect** You have conducted a risk analysis to protect a key company asset. You identify the following values: • Asset value = 400 • Exposure factor = 75 Annualized Rate of Occurrence = .25 What is the Single Loss Expectancy (SLE)? 100 300 475 30000 **Explanation** The Single Loss Expectancy (SLE) is the asset value (AV) multiplied by the exposure factor (EF), with the EF being a percentage of the asset value that is lost. In this example,  $SLE = 400 \times 75\% = 300$ . References LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_14] **▼** Question 13: Correct A broken water pipe that floods the reception area would be considered which type of threat? Disaster Internal

External

Natural

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## **Explanation**

Natural events are those events that may reasonably be expected to occur over time. Examples are a fire or a broken water pipe.

Disasters are major events that have significant impact on an organization. Examples are tornadoes, hurricanes, and floods.

External threats are those events originating outside of the organization that typically focus on compromising the organization's information assets.

Internal threats are intentional or accidental acts by employees. Examples are theft, fraud, snooping, and unintentional data loss.

#### References

LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_16||/]

**▼** Question 14:

Correct

A file server with data is consider which of the following asset types?

	Tan	gil	ole

Neither tangible nor intangible



Both tangible and intangible

### **Explanation**

Assets can have both tangible and intangible components. For example, a computer that functions as a server has a tangible value associated with the replacement cost of the hardware. Intangible assets include the data on the computer, the value of the role that the computer performs within the organization, and what the computer's information is worth to a competitor or an attacker.

A tangible asset is a physical item such as a computer, storage device, or document. Such items are typically purchased.

An intangible asset is a resource that has value and may be saleable even though it is not physical or material. Intangible assets are typically more challenging to identify and evaluate.

#### References

LabSim for Security Pro, Section 3.2. [All Questions SecPro2017\_v6.exm RISK\_MANAGE\_17||/]

**▼** Question 15:

Correct

Which of the following is **not** an accepted countermeasure to strengthen a cryptosystem?

$\Rightarrow$	Keep	the	cryptos	system	a	secre

Implement long key spaces

Use strong passwords

Implement strong systems with redundant encipherment

# **Explanation**

Current practice in cryptography does not rely on the secrecy of the cryptosystem. Publishing the algorithm exposes the system to scrutiny. This scrutiny often validates the security of the system or identifies weaknesses that show the system as unreliable.

The following countermeasures can strengthen a cryptosystem:

- Use strong passwords that contain multiple character types, are a minimum length of eight characters or more, and use no part of a username or email address.
- Implement strong cryptosystems with redundant encipherment, such as 3DES.

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• Implement long key spaces. Generally speaking, the longer the key space, the stronger the cryptosystem.
References

LabSim for Security Pro, Section 3.2.
[All Questions SecPro2017\_v6.exm RISK\_MANAGE\_01]