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Assessment Task 1: Knowledge Questions

1. Provide answers to all of the que...
2. Describe the purpose of a service...
3. Describe the purpose of a custo...
4. Complete the following table.Ite...
5. For each of the network issues in...
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8. List three suggestions for reduci...
9. Explain dimensioning and identifi...
10. Describe each of the following t...

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≡ Your Answer • Satisfactory (1)

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Manuel Sergio Perez Espitia 28 Jan, 2025 12:12 AM

Provide answers to all of the questions below:

Give an example for each of the following that can apply to work associated with managing a network. Explain how the example you provide is relevant to managing a network.

Give an example of each of the following that can apply to work associated with managing a network. Explain how the example you provide is relevant to managing a network

Laws made by parliament by government and has implications about legality.

Legis  
lation

- Example: Cyber Security Act 2024: Indicates the mandatory use of these that smart device manufacturers must apply. This is really important because by using security standards, the overall security of the Internet can be improved.

Code  
of  
practi  
ce

Guidelines on how behavior should be, consisting of general recommendations and best practices (voluntary). - Example: IoT Code of Practice: It is about the default settings of IoT devices that manufacturers should implement. For example, one recommendation is about 'No duplicated default or weak passwords' and it is important because most security breaches occur due to bad practices in password management.

Regul  
ation

Are the rules based on a specific set of laws. It is made by government, provide a set of requirements that must be followed. - Example: General Data Protection Regulation that protects the privacy and personal data of EU residents following guidelines for data processing and handling.

Stan  
dard

Is a set of the minimum technical specifications to ensure a good practice (may be voluntary). - Example: Smart Devices Regulation is the set of standards that manufacturers must follow in their products, for example: factory default state, good industry practice and manufacturer's intended purpose. This is important because it forces manufacturers to create secure products that have the minimum cybersecurity features.

Work  
place  
proce  
dure

Describe a set of rules and procedures that all members of an organization must follow on a work place. -

Example: Guidelines for physical security: It deals with access measures to the physical locations where Server rooms, communications rooms and security devices are located. It is important because it defines the procedure for classifying the devices according to their importance and the procedure for accessing these areas.

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**Describe the purpose of a service level agreement and its relevance to managing a network.** Your Answer • Satisfactory (1)[See Model Answer](#)**Manuel Sergio Perez Espitia** 5 Feb, 2025 6:37 PM

Service Level Agreement (SLA): Is an agreement between an organization and its customers that provide details about describes the work to be done, specifications, responsibilities and legal matters such as penalties. For example, in a project to build a network for a small company, it is relevant because depending on the client's requirements, the network architect can decide what type and protocol are most suitable, as well as the appropriate security elements. The appropriate bandwidth could also be chosen and the type of cable to use (10Mbs, 1Gb/s, 1000Gbs) as well as the standard for the network cable to use (CAT5, CAT5E, CAT6).

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**Describe the purpose of a customer policy and its relevance to managing a network.**

≡ Your Answer • Satisfactory (1)

[See Model Answer](#)**Manuel Sergio Perez Espitia** 5 Feb, 2025 7:19 PM

Customer policy are policies and principles that an organization follow to provide excellent customer service that align with the organization's objectives (voluntary). It is relevant because it can indicate the level of commitment to the client. For example, if a software development company establishes in its customer policy that it will always try to offer advice on security issues on a disinterested basis. Consequently, the company will offer its security consulting services or provide solutions to small security problems. For example, advice on the adoption of encrypted channels, encryption of app information (SSL/TLS) or the use of a virtual network for communication between the Core and the APIs.

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10. Describe each of the following t...


**Item 4 of 26**
≡ Your Answer • Satisfactory (1)
[See Full Criteria](#)

**Manuel Sergio Perez Espitia** 5 Feb, 2025 8:06 PM

Complete the following table.

Item	Purpose	A feature of this item
System monitoring alerts and alarms	Provide real time information and alerts of issues or potential issues to ensure a network correct operation.	Real time alarms about abnormal network behavior.
Network management systems	Centralize network administration to efficiently collect data, monitoring resources, testing, configuring and troubleshooting to ensure efficient operation, security and works with the minimal downtime.	Centralized platform to configure all network devices.
Semi-permanent controls	Provide a quick way to modify characteristics of network devices for simulation and diagnostic purposes.	Change or limit performance/behavior of network devices.
Traffic engineering	Ensure that the network works properly to avoid network congestion.	Distribute network traffic across multiple paths to alleviate traffic congestion.
Workplace documentation related to network traffic	Maintain documented all information related to network traffic, as well as diagrams, configurations and device technical specifications.	Provide Traceability.

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Your Answer • Satisfactory (1)

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Manuel Sergio Perez Espitia 6 Feb, 2025 11:48 PM

For each of the network issues in the table, describe a feature that would indicate to you that this is a network issue.

Network issues	A feature of this network issue
Route and circuit availabilities	Slow or unstable network connectivity
System outages	Server Crash such as DNS, DHCP or app server are unavailable or lost connection to the network
Traffic patterns	High latency on TCP connection such as video games

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Your Answer • Satisfactory (1)

[See Full Criteria](#)

Manuel Sergio Perez Espitia 6 Feb, 2025 11:58 PM

**List three principles of network management planning.**

Scalability: Design of networks that are easily adaptable to network growth.

Interoperability: Network design with the ability to connect to a wide variety of devices and other networks.

Risk analysis: Process to identify, analyze and classify potential threats that may affect network performance to develop mitigation strategies.

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**Outline how traffic blocking is used to reduce or limit network traffic.** Your Answer • Satisfactory (1)[See Model Answer](#)**Manuel Sergio Perez Espitia** 7 Feb, 2025 12:21 AM

Stop consuming bandwidth by blocking incoming/outgoing traffic using connection rules on a firewall.

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≡ Your Answer • Satisfactory (1)

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Manuel Sergio Perez Espitia 7 Feb, 2025 12:23 AM

List three suggestions for reducing congestion on an organisation's network.

Dealing with and reducing bottlenecks

Prioritizing network traffic needs over others

Analyzing traffic patterns

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**Explain dimensioning and identify the main principle relating to network design.** Your Answer • Satisfactory (1)[See Model Answer](#)**Manuel Sergio Perez Espitia** 7 Feb, 2025 12:28 AM

Dimensioning is Process to determine the minimum requirements to deploy a network that meets the Teletraffic Grade of Service (GoS). Its main principle is to design a network in which 100% utilization is never reached.

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≡ Your Answer • Satisfactory (1)

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Manuel Sergio Perez Espitia 7 Feb, 2025 12:45 AM

Describe each of the following transmission types and signals that may be encountered.

Transmission type	Description	Signals
Wire	Use of cables for connection for the transmission of information, for example: twisted pair and coaxial cable.	An electromagnetic wave travels along a wire conductor to a receiver.
Radio	Use of electromagnetic waves for the transmission of information in the air (works in conjunction with a antenna as a receiver and transmitter).	An electromagnetic radio wave is transmitted and received by an antenna coupled to the receiver.
Optical	Using light to transmit information through a optical cable	Pulses of light in the infrared spectrum traveling through optical cable

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≡ Your Answer • Satisfactory (1)

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Manuel Sergio Perez Espitia 7 Feb, 2025 12:57 AM

**Outline three types of network topologies.**

Star: All nodes are connected to a central device (hub). Network traffic passes through the hub.

Bus: All nodes are connected to a main cable (bus).

Ring: All nodes are connected in a closed loop. Network traffic passes for every each node.

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≡ Your Answer • Satisfactory (1)

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Manuel Sergio Perez Espitia 7 Feb, 2025 1:16 AM

**Outline two switching techniques used for managing network traffic.**

Circuit Switching: Establishes a dedicated path between sender and receiver. It is used to guarantee a connection that needs to be full bandwidth and with low latency.

Packet Switching: Message splits into smaller pieces (packets: info+ control information) and are sent individually. It is used to ensure a reliable connection.

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Manuel Sergio Perez Espitia 7 Feb, 2025 1:31 AM

**Identify three routing techniques and provide an explanation of each.**

Static routing: Network administrator have to manually enter the routing information for each router.

Dynamic routing: Routers use protocols to discover network destinations to delivery the packages.

Default routing: All packages are send to a default router and doesn't matter to which network the packet belongs.

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