10	Dasic Router Comigaration	~	1. What is another name for the OSI data link layer?
11	IPv4 Addressing	~	Layer 1 Layer 2
6	Data Link Layer	^	Layer 3
6.1.2	Sublayers		Cayer 6
6.1.3	Providing Access to Media		The IEEE 802 LAN/MAN data link layer consists of which two sublayers? (Choose two.)
6.1.4	Data Link Layer Standards		Network Control Protocol
	Check Your Understanding -		✓ Logical Link Control
6.1.5	Purpose of the Data Link Laye	er	✓ Media Access Control
6.2	Topologies	~	Link Control Protocol
6.3	Data Link Frame	~	3. What is the responsibility of the MAC sublayer?
			Adds Layer 3 addresses to the frame
6.4	Module Practice and Quiz	~	Communicates with the network layer (Layer 3)
			Provides the method to get the frame on and off the media
7	Ethernet Switching	~	Transmits the bits on the media
			4. What Layer 2 function does a router perform? (Choose three.)
8	Network Layer	~	Accepts a frame from a medium
			De-encapsulates the frame
9	Address Resolution	~	Refers to its Layer 3 routing table for a matching destination network
10	Danie Dauten Configuration		

Rasic Router Configuration

Introduction to Networks -Topologies

6.4	Module Practice and Quiz	~	1. Which topology displays networking device layer IP addresses?
			aerial topology
7	Ethernet Switching	<u></u>	IP address topology
6	Data Link Layer	^	logical topology
6.2	Topologies	^	physical topology
6.2.1	Physical and Logical Topologies		2. What kind of network would use point-to-point, hub and spoke, or mesh topologies?
6.2.2	WAN Topologies		○ PAN ○ LAN
6.2.3	Point-to-Point WAN Topology		WLAN
6.2.4	LAN Topologies		WAN
6.2.5	Half and Full Duplex Communication		3. Which LAN topology is a hybrid topology? Obus
6.2.6	Access Control Methods		extended star ring
6.2.7	Contention-Based Access - CSMA/CD		star
6.2.8	Contention-Based Access - CSMA/CA		4. Which duplex communication method is used in WLANs?
	Check Your Understanding -		full-duplex
6.2.9	Topologies		half-duplex
6.3	Data Link Frame		simplex

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Introduction to Networks -Topologies

6.4	Module Practice and Quiz	\
7	Ethernet Switching	\
6	Data Link Layer	/
6.2	Topologies	/
6.2.1	Physical and Logical Topologie	S
6.2.2	WAN Topologies	
6.2.3	Point-to-Point WAN Topology	
6.2.4	LAN Topologies	
6.2.5	Half and Full Duplex Communication	
6.2.6	Access Control Methods	
6.2.7	Contention-Based Access - CSMA/CD	
6.2.8	Contention-Based Access - CSMA/CA	
6.2.9	Check Your Understanding - Topologies	
6.3	Data Link Frame	

5.	Which media access control method is used in legacy Ethernet LANs?	
	carrier sense multiple access/collision annoyance	Check
	carrier sense multiple access/collision avoidance carrier sense multiple access/collision destruction	Show Me
	carrier sense multiple access/collision detection	Reset
<	Purpose of the Data Link Layer	Data Link Frame

Introduction to Networks -Data Link Frame

	Communication	 What does the data link layer add to a Layer 3 packet to create a frame? (Choose two.)
6.2.6	Access Control Methods	—
	Cantantian Dasad Assess	flags
		sequence number
5	Number Systems	header
6	Data Link Layer ^	2. What is the function of the last field in a data link layer frame?
6.0	Introduction	To determine whether the frame experienced transmission errors
6.0.1	Why should I take this module?	 To identify special flow control services such as quality of service (QoS)
6.0.2	What will I learn to do in this module?	To identify the beginning and end limits of the frame
		To identify the Layer 3 protocol in the data field
6.1	Purpose of the Data Link Layer	
		3. Which lists the Layer 2 and Layer 3 address fields in the correct order?
6.2	Topologies	
6.2.1	Physical and Logical Topologies	destination NIC address, source NIC address, source IP address, destination IP address
6.2.2	WAN Topologies	 source NIC address, destination NIC address, source IP address, destination IP address
6.2.3	Point-to-Point WAN Topology	destination NIC address, source NIC address, destination IP address, source IP address
		source NIC address, destination NIC address, destination IP
6.2.4	LAN Topologies	address, source IP address
	Half and Full Duplex	

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	Communication	
6.2.6	Access Control Methods	
	Contention Doord Access	
5	Number Systems	~
6	Data Link Layer	^
6.0	Introduction	\
6.0.1	Why should I take this module?)
0.0.1	willy should I take this module:	
6.0.2	What will I learn to do in this module?	
6.1	Purpose of the Data Link Layer	~
6.2	Topologies	~
6.2.1	Physical and Logical Topologie	S
6.2.2	WAN Topologies	
6.2.3	Point-to-Point WAN Topology	
6.2.4	LAN Topologies	
625	Half and Full Duplex	

4	. Which of the following are data link layer protocols? (Choose three)	
	✓ 802.11✓ Ethernet☐ IP✓ PPP☐ UDP	Check Show Me Reset
<	6.2 Topologies	Module Practice and Quiz

15	Application Layer	~	1. What identifier is used at the data link layer to uniquely identify an Ethernet device?
4.0	Network Security		sequence number
6	Data Link Layer	^	☐ IP address
0	Data Link Layer		CP port number
6.4	Module Practice and Quiz	^	UDP port number
			MAC address
6.4.1	What did I learn in this modul	e?	
0.40	Madula Oviz Data Link Lava		2. What attribute of a NIC would place it at the data link layer of the OSI model?
6.4.2	Module Quiz - Data Link Laye	er.	RJ-45 port
			MAC address
7	Ethernet Switching	~	○ IP address
			attached Ethernet cable
8	Network Layer	~	TCP/IP protocol stack
9	Address Resolution	~	Which two engineering organizations define open standards and protocols that apply to the data link layer? (Choose two.)
			Institute of Electrical and Electronics Engineers (IEEE)
10	Basic Router Configuration	~	International Telecommunication Union (ITU)
			Internet Society (ISOC)
11	IPv4 Addressing	~	Internet Assigned Numbers Authority (IANA)
			Electronic Industries Alliance (EIA)
12	IPv6 Addressing	~	
			4. What is true concerning physical and logical topologies?
13	ICMP	~	Logical topologies refer to how a network transfers data between devices.
			The logical topology is always the same as the physical topology.
1 /	Transport Louis		Physical topologies display the IP addressing scheme of each network.
14	Transport Layer	~	Physical topologies are concerned with how a network transfers frames.

15	Application Layer	~	5. What method is used to manage contention-based access on a wireless network?
4.0	Network Security		priority ordering
6	Data Link Layer	^	token passing CSMA/CA
6.4	Module Practice and Quiz	^	CSMA/CD
6.4.1	What did I learn in this modul	le?	 A technician has been asked to develop a physical topology for a network that provides a high level of redundancy. Which physical topology requires that
6.4.2	Module Quiz - Data Link Laye	er	every node is attached to every other node on the network?
			hierarchical
7	Ethernet Switching	~	bus
			ring
8	Network Layer	~	star
			mesh
9	Address Resolution	~	7. Which statement describes the half-duplex mode of data transmission?
10	Pagia Dautor Configuration		Data that is transmitted over the network flows in one direction to many different destinations simultaneously.
10	Basic Router Configuration	~	Data that is transmitted over the network flows in one direction at a time.
11	IPv4 Addressing	~	Data that is transmitted over the network can only flow in one direction.
- 1 1	ii v4 Addressing	V	Data that is transmitted over the network flows in both directions at the same time.
12	IPv6 Addressing	~	Q. Which is a function of the Logical Link Control (LLC) sublever?
			8. Which is a function of the Logical Link Control (LLC) sublayer?
13	ICMP	~	to define the media access processes that are performed by the hardware
			to provide data link layer addressing
14	Transport Layer	~	to accept segments and package them into data units that are called packets

15	Application Layer	~	to identify which network layer protocol is being used
4.0	Network Security		9. Which data link layer media access control method does Ethernet use with legacy Ethernet hubs?
6	Data Link Layer	^	determinism
6.4	Module Practice and Quiz	^	CSMA/CD
			turn taking
6.4.1	What did I learn in this modul	le?	token passing
6.4.2	Module Quiz - Data Link Laye	er	10. What are the two sublayers of the OSI model data link layer? (Choose two.)
			physical
7	Ethernet Switching	~	✓ MAC
			transport
8	Network Layer		network access
O	Network Layer	~	✓ LLC
			internet
9	Address Resolution	~	internet
10	Basic Router Configuration	~	11. Which layer of the OSI model is responsible for specifying the encapsulation method used for specific types of media?
			application
11	IPv4 Addressing	<u> </u>	physical
1 1	ii v4 Addiessing		transport
12	IPv6 Addressing		data link
			12. What type of physical topology can be created by connecting all Ethernet
13	ICMP	~	cables to a central device?
			bus
14	Transport Layer		ring
	-1	-	star

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15	Application Layer	~
6	Network Security Data Link Layer	^
6.4	Module Practice and Quiz	^
6.4.1	What did I learn in this module	e?
6.4.2	Module Quiz - Data Link Laye	r
7	Ethernet Switching	~
8	Network Layer	~
9	Address Resolution	~
10	Basic Router Configuration	~
11	IPv4 Addressing	~
12	IPv6 Addressing	~
13	ICMP	~
14	Transport Layer	~

mesh	
13. What are two services performed by the data link layer of the OSI model? (Choose two.)	
It provides media access control and performs error detection.	
✓ It accepts Layer 3 packets and encapsulates them into frames.	
It determines the path to forward packets.	
It fragments data packets into the MTU size.	
It monitors the Layer 2 communication by building a MAC address table.	
14. Although CSMA/CD is still a feature of Ethernet, why is it no longer necessary? () the virtually unlimited availability of IPv6 addresses	
the development of half-duplex switch operation	Charle
the use of Gigabit Ethernet speeds	Check
the use of CSMA/CA	Show Me
the use of full-duplex capable Layer 2 switches	Reset
C 6.3 Data Link Frame	Introduction >

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