



# 600-601<sup>Q&As</sup>

Managing Industrial Networks with Cisco Networking Technologies

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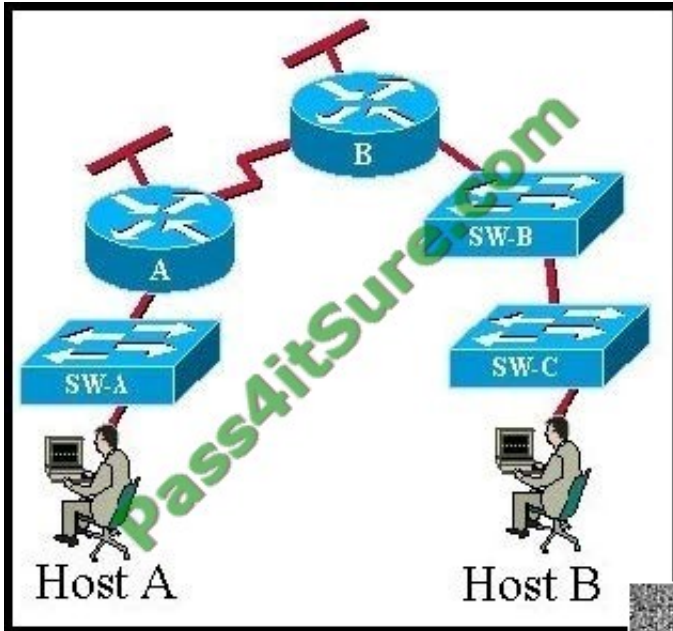
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**QUESTION 1**

Exhibit: Refer to the exhibit. CCNA.com has the industrial network shown in the exhibit. All switches are configured as layer 2 switches and are using VLAN 1 as their management VLAN. Each VLAN 1 interface has been assigned the correct IP address. What is the purpose of assigning a default gateway to SW-C switch?



- A. allows connectivity between the VLAN 1 interface on SW-C and other devices in the network.
- B. allows connectivity between Host A and other devices in the network.
- C. allows connectivity between Host B and other devices in the network.
- D. allows the switch to pass traffic between Host A and Host B

Correct Answer: A

**QUESTION 2**

At which Layer would you use trace route to validate the path?

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 4

Correct Answer: C



### QUESTION 3

Which three pieces of information must be maintained for all stakeholders as part of the change management process? (Choose three.)

- A. the location of the person who applied the change
- B. the date and time that the change was applied and on which device
- C. the original change request form that indicates why the change is necessary
- D. the size of the change (in bytes)
- E. a description of the actual change itself (configuration, program code, and so on)
- F. the names of the current members of the change advisory board
- G. the industrial protocol that is used

Correct Answer: BCE

### QUESTION 4

Exhibit:

```
Switch# show spanning-tree vlan 30
VLAN0030
Spanning tree enabled protocol rstp
Root ID Priority 24606
Address 00d0.047b.2800
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 24606 (priority 24576 sys-id-ext 30)
Address 00d0.047b.2800
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300
Interface Role Sts Cost Prio.Nbr Type
-----
Fa1/1 Desg FWD 4 128.1 p2p
Fa1/2 Desg FWD 4 128.2 p2p
Fa5/1 Desg FWD 4 128.257 p2p
```

Refer to the exhibit. The output that is shown is generated at an industrial switch. Which three statements are true? (Choose three.)

- A. All ports will be in a state of discarding, learning, or forwarding.
- B. Thirty VLANs have been configured on this switch.
- C. The bridge priority is lower than the default value for spanning tree.



- D. All interfaces that are shown are on shared media.
- E. All designated ports are in a forwarding state.
- F. This switch must be the root bridge for all VLANs on this switch.

Correct Answer: ACE

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#### QUESTION 5

How does the optical time domain reflectometer use "backscattered" light to make measurements?

- A. It uses pulses to locate and test for sheath faults, damaged conductors, loose connectors, splices, bridge taps, split pairs, and other problems.
- B. It performs wiremapping to measure that all pins are correctly connected.
- C. It correlates the returned light pulses with a location in the fiber.
- D. It measures light-pulse width to measure that all pins are correctly connected.

Correct Answer: C

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#### QUESTION 6

Why is SSH preferred over Telnet as a method of accessing a network device to alter or view the configuration?

- A. Telnet encrypts only the login information, not the entire transmission.
- B. SSH requires fewer network resources and no additional configuration.
- C. Telnet is more difficult to use and configure than SSH.
- D. SSH encrypts the login and session information.

Correct Answer: D

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#### QUESTION 7

An administrator has connected devices to an industrial switch and, for security reasons, wants the dynamically learned MAC addresses from the address table added to the running configuration. What must be done to accomplish this?

- A. Enable port security and use the keyword sticky.
- B. Set the switchport mode to trunk and save the running configuration.
- C. Use the switchport protected command to have the MAC addresses added to the configuration.
- D. Use the no switchport port-security command to allow MAC addresses to be added to the configuration.

Correct Answer: A

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**QUESTION 8**

What is the most critical step to perform when you are using optical fiber connectors?

- A. Cover with dust caps when not in use.
- B. Immerse in alcohol prior to use.
- C. Blow off and carefully wipe down with a tissue before and after each use.
- D. Lightly sand with cloth prior to mating.

Correct Answer: A

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**QUESTION 9**

What are two recommended tools or commands that allow you to troubleshoot connectivity between two devices in different IP networks? (Choose two.)

- A. show interface status
- B. show spanning-tree
- C. ping
- D. show interfaces gigabitEthernet x/y switchport
- E. traceroute
- F. show interface

Correct Answer: CE

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**QUESTION 10**

With a Cisco IE 2000 switch, what does a power status LED indicate when it is solid green?

- A. Power is present on the associated circuit and the system is operating normally.
- B. Power is present on the associated circuit, but there is no correlation to whether the system is operating normally.
- C. The system is operating normally, but power is not necessarily present on the associated circuit.
- D. Power is not present on the associated circuit and the power supply alarm is configured.
- E. The power status LED does not show solid green.

Correct Answer: A

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### QUESTION 11

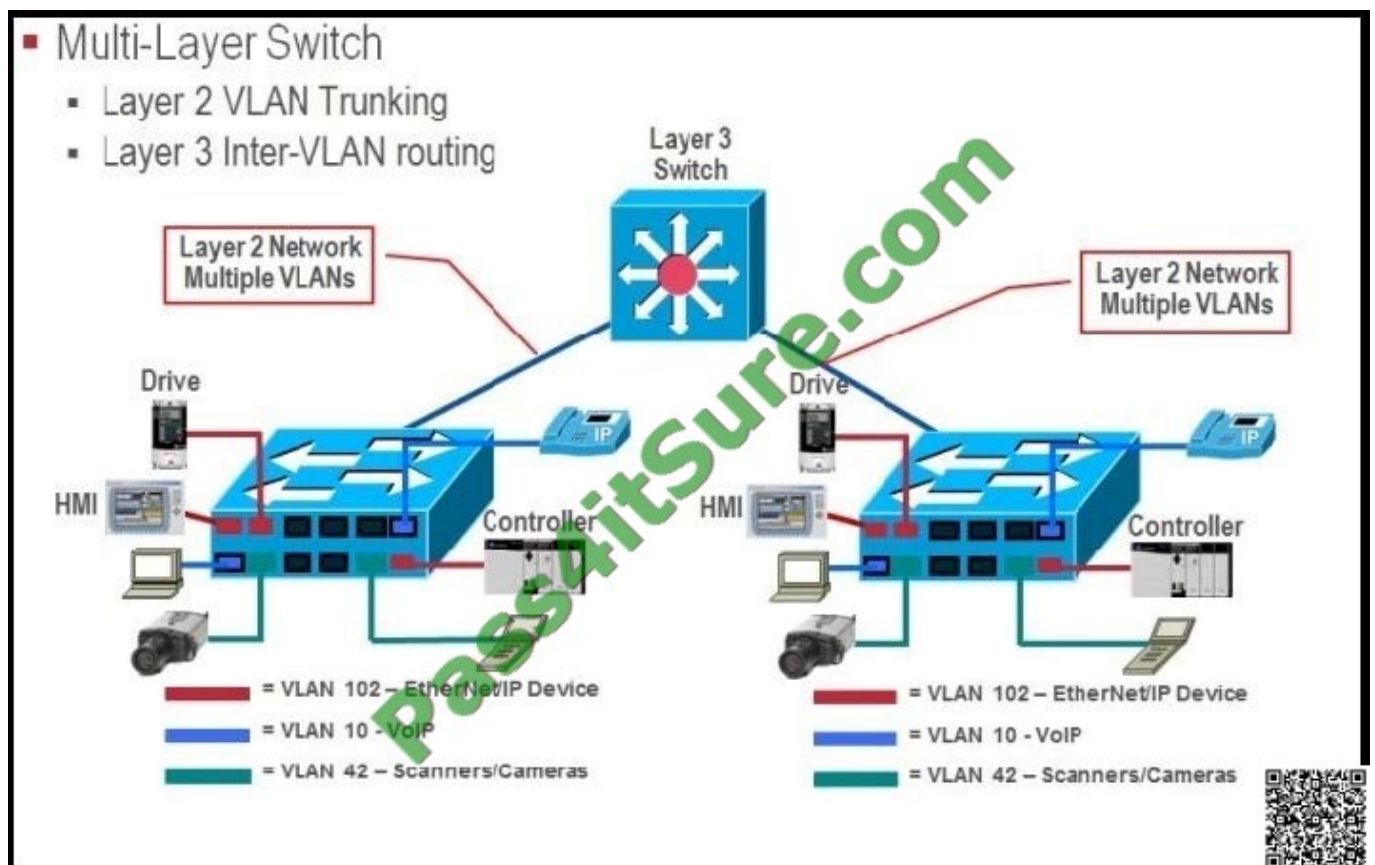
You are troubleshooting a connectivity problem and want to isolate the problem. You suspect that a router on the route to an unreachable network is at fault. Which command would you issue to see where the packets stop?

- A. router#ping
- B. router#tracert
- C. router#show ip route
- D. router#show cdp neighbors
- E. router#traceroute

Correct Answer: E

### QUESTION 12

Exhibit: Refer to the exhibit. What are three traffic and interconnection requirements for the devices in the exhibit?  
(Choose three.)



A. The EtherNet/IP drive connections are in a high-voltage area and need protection from electromagnetic noise, so shielded cable that is rated for 600 V is advised.

B. EtherNet/IP devices such as the controller, drive, VoIP phone, and IP camera should be in the same VLAN.



- C. CIP traffic has the highest bandwidth requirement so it needs the highest QoS setting.
- D. EtherNet/IP drive traffic has high sensitivity to random drops, latency, and jitter.
- E. Real-time motion control and VoIP traffic can share the same VLAN with the proper QoS setting.
- F. IEEE1588 and PTP are important for ensuring real-time synchronization.

Correct Answer: ADF

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