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Chapter 2 - WATER QUALITY MONITORING, STANDARDS AND TREATMENT

WHO has issued guidelines for drinking water quality, a report in three volumes. Vol. 1 deals with guideline values, Vol. 2 deals with each contaminant and Vol. 3 gives information on how to handle water supplies in small rural communities. WHO recognizes that very stringent standards cannot be used universally and so a range of guideline values for more than 60 parameters have been elaborated. Most nations have their own guidelines or standards. The control exerted by local regulatory authorities may differ from place to place depending on the local situation. So how can acceptable water quality be defined? What can the harbour-master do to ensure quality? Ensuring the quality of the harbour basin when it is contiguous with estuarine or coastal waters is perhaps beyond the scope of the harbour-master except to ensure that activities in his harbour do not add to the pollution. However, he is duty-bound to ensure that the water used for drinking, cleaning fish, ice making and fish processing meets standards of potability set in his country.

Qualitative and quantitative measurements are needed from time to time to constantly monitor the quality of water from the various sources of supply. The harbour-master should then ensure appropriate water treatment within the fishery harbour complex as well as initiate remedial measures with the suppliers when water supply from outside is polluted.

Water sampling and analysis should be done by ISO-certified laboratories. Wherever laboratories available locally are not ISO-certified, it is advisable to get their quality assessed by an ISO-certified laboratory by carrying out collaborative tests to ensure that variation in the accuracy of results is sufficiently small. Unreliable results exacerbate problems of pollution when corrective action cannot be taken in time. Sampling and monitoring tests should be carried out by qualified technicians.

Depending on the actual state of the fishing harbour infrastructure and environmental conditions in and around the harbour, monitoring should be carried out according to a specific programme for each source of water supply.

2.1.1 Borewells

Contamination may arise from pollutants entering the water table some distance from the port or from sewage entering the borehole itself in the port area through cracked or corroded casings. In cases where overdrawn is evident (water is brackish), tests should be conducted at least monthly.

2.1.2 Municipal mains

Supply could be contaminated at source or through corroded pipelines leading to the fishery harbour. Mixing with sewage lines due to defective piping has been known to occur often. Complete tests should be carried out every half year, and the authorities should be informed when results indicate contamination.

2.1.3 Water tanks and reservoirs

Both types of structure are prone to bacterial growth if the residual chlorine levels in them are low or non-existent. Testing may not be necessary if periodic scrubbing is carried out. Bacteriological tests should be done at least half-yearly.

2.1.4 Harbour basin water

Typically, harbour basins are tested yearly. However, in areas where monsoons are very active, it may be advisable to test at the peak of the dry season when effluent point discharges tend to remain concentrated in the water body and again during the wet season when agriculture run-off may be considerable. Another critical period for harbours is the peak of the fishing season when the harbour is at its busiest and vessel-generated pollution is likely to be at its peak.

<http://www.fao.org/docrep/x5624en/x5624e05.htm#2.1.4> water treatment methods

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Cisco 100-140 Exam Syllabus Topics:

Topic	Details
Topic 1	Connectivity and Resource Access Issues: This section measures skills of a Network Support Technician and involves assisting users to establish access to network resources, understanding directory services like Active Directory and cloud access management platforms, and managing multifactor authentication. It also includes troubleshooting connectivity problems with peripherals such as printers, scanners, and teleconferencing devices, as well as verifying basic network settings and diagnosing connectivity using various network commands and tools.
Topic 2	Job Roles: This section evaluates an IT Support Technician's ability to use remote access tools (such as Remote Desktop, Cisco Webex, and TeamViewer) to assist users and perform support activities. It also includes utilizing troubleshooting tools and resources, such as AI research, search engines, technical forums, and knowledge bases, while being aware of ethical, privacy, and security considerations related to AI and other technologies.
Topic 3	Operating System and Application Issues: This part targets an Operating System Support Specialist and addresses resolving Windows and macOS issues, such as display settings, updates, permissions, power management, and data backup using cloud tools. It covers troubleshooting mobile device problems on iOS and Android operating systems and provides an understanding of virtualization and cloud concepts including major providers and virtual machines. This section also covers resolving common application issues like installation and security concerns.
Topic 4	Common Threats and Prevention: This domain measures the knowledge of an IT Security Support Technician and covers recognizing end-user security threats including phishing, malware, and unauthorized access attempts. It emphasizes basic investigation steps, helping users run malware scans, promoting strong password practices, understanding social engineering tactics targeting help desk roles, and the importance of company policies and confidentiality guidelines to protect sensitive data.
Topic 5	IT Support Job Tasks and Responsibilities: This section of the exam measures skills of an IT Support Specialist and covers foundational help desk concepts such as queue and time management, ticketing systems, service level agreements (SLA), and key performance indicators (KPIs). It includes preparing clear and comprehensive documentation summarizing customer interactions and describes the problem-solving process involving defining issues, collecting information, analyzing causes, implementing solutions, and recording results.

Cisco Certified Support Technician (CCST) IT Support Sample Questions (Q229-Q234):

NEW QUESTION # 229

Match each Windows tool from the list on the left to its appropriate usage scenario on the right.

Note: You will receive partial credit for each correct selection.

Windows Tools	Usage Scenario	Windows Tool
Device Manager	The technician is helping a user set up multiple monitors so they can work more efficiently.	
Disk Management	The technician advises a user on how to prepare a new external hard drive for file backup by formatting it and assigning a drive letter.	
Display Settings	To address complaints of a sluggish computer, the technician guides the user through identifying programs that are consuming too much system resources.	
Task Manager	A user is having trouble with their newly connected webcam not functioning correctly, and the technician needs to verify the device's driver installation.	

Answer:

Explanation:

Windows Tools	Usage Scenario	Windows Tool
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NEW QUESTION # 230

A user reports that their documents are not printing and the printer status indicates "printing" without any output. What is the most appropriate first step to resolve this issue?

- A. Reinstall the printer drivers
- B. Replace the printer's network cable
- C. Cancel all documents in the print queue and restart the print spooler
- D. Update the printer's firmware

Answer: C

Explanation:

Correct Answer. B. Cancel all documents in the print queue and restart the print spooler Clearing the print queue and restarting the print spooler service can resolve issues where documents are stuck and not printing, often clearing any errors or conflicts in the process.

Option A is incorrect. Reinstalling the printer drivers is more disruptive and not necessary unless driver corruption is suspected after other troubleshooting steps fail.

Option C is incorrect. A network cable issue would more likely prevent the printer from being available at all, rather than just stopping document printing.

Option D is incorrect. Firmware updates are important for long-term maintenance but would not typically resolve immediate issues with print jobs stuck in the queue.

NEW QUESTION # 231

A technician notices that a user's wireless pointing device is not being recognized by their computer. What should the technician check first?

- A. Verify that the device is paired correctly with its receiver
- B. Perform a hardware reset on the computer
- C. Check the computer's firewall settings
- D. Ensure the device's driver is up to date

Answer: A

Explanation:

Correct Answer: B. Verify that the device is paired correctly with its receiver Incorrect pairing or connection disruptions between the device and its receiver can prevent it from being recognized by the computer.

Option A is incorrect. While important, updating the driver is not the first step if the device is not recognized due to pairing issues. Option C is incorrect. A hardware reset of the computer is a more drastic step that should be considered only if other simpler solutions fail.

Option D is incorrect. Firewall settings affect network traffic and are unrelated to local peripheral device connectivity.

NEW QUESTION # 232

A customer calls the Help Desk and reports the following:

I keep getting an error that my system is low on memory when I run my video editing software.

Which process will allow the customer to locate the available memory of their device?

- A. Ask the customer to open Task Manager and select the Performance tab.
- B. Ask the customer to open Settings and select the Devices tab.
- C. Ask the customer to open Event Viewer and select the Applications and Services Log tab.
- D. Ask the customer to open Command Prompt and type in ipconfig/all and press Enter.

Answer: A

Explanation:

Task Manager's Performance tab provides real-time details on total, used, and available RAM, allowing the user to see memory availability.

NEW QUESTION # 233

A user complains that their keyboard stops working intermittently. What should the technician do first to diagnose the issue?

- A. Clean the keyboard with compressed air
- B. Replace the keyboard with a newer model
- C. Install a new operating system
- D. Check the keyboard's USB connection for any signs of damage or loose fit

Answer: D

Explanation:

Correct Answer: A. Check the keyboard's USB connection for any signs of damage or loose fit Intermittent functionality often indicates a poor connection. Checking for damage or a loose connection can identify if the issue is physical, which is one of the simplest and most direct initial checks.

Option B is incorrect. Installing a new operating system is too drastic for what might be a simple connectivity issue.

Option C is incorrect. Cleaning the keyboard is beneficial for key function, not connectivity issues.

Option D is incorrect. Replacing the keyboard is premature without first confirming the source of the problem.

NEW QUESTION # 234

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