



.4.0 Operational Procedures

4.1 Given a scenario, implement best practices associated with documentation and support systems information management.

- **Ticketing systems**
 - User information
 - Device information
 - Description of problems
 - Categories
 - Severity
 - Escalation levels
 - Clear, concise written communication
 - Problem description
 - Progress notes
 - Problem resolution
- **Asset management**
 - Inventory lists
 - Database system
 - Asset tags and IDs
 - Procurement life cycle
 - Warranty and licensing
 - Assigned users
- **Types of documents**
 - Acceptable use policy (AUP)
 - Network topology diagram
 - Regulatory compliance requirements
 - Splash screens
- Incident reports
- Standard operating procedures
 - Procedures for custom installation of software package
- New-user setup checklist
- End-user termination checklist
- **Knowledge base/articles**

4.2 Explain basic change-management best practices.

- **Documented business processes**
 - Rollback plan
 - Sandbox testing
 - Responsible staff member
- **Change management**
 - Request forms
 - Purpose of the change
 - Scope of the change
 - Date and time of the change
 - Affected systems/impact
 - Risk analysis
 - Risk level
 - Change board approvals
 - End-user acceptance



4.3 Given a scenario, implement workstation backup and recovery methods.

- **Backup and recovery**
 - Full
 - Incremental
 - Differential
 - Synthetic
 - **Backup testing**
 - Frequency
 - **Backup rotation schemes**
 - On site vs. off site
 - Grandfather-father-son (GFS)
 - 3-2-1 backup rule
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4.4 Given a scenario, use common safety procedures.

- **Electrostatic discharge (ESD) straps**
 - **ESD mats**
 - **Equipment grounding**
 - **Proper power handling**
 - **Proper component handling and storage**
 - **Antistatic bags**
 - **Compliance with government regulations**
 - **Personal safety**
 - Disconnect power before repairing PC
 - Lifting techniques
 - Electrical fire safety
 - Safety goggles
 - Air filtration mask
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4.5 Summarize environmental impacts and local environmental controls.

- **Material safety data sheet (MSDS)/documentation for handling and disposal**
 - Proper battery disposal
 - Proper toner disposal
 - Proper disposal of other devices and assets
- **Temperature, humidity-level awareness, and proper ventilation**
 - Location/equipment placement
 - Dust cleanup
 - Compressed air/vacuums
- **Power surges, under-voltage events, and power failures**
 - Battery backup
 - Surge suppressor



4.6 Explain the importance of prohibited content/activity and privacy, licensing, and policy concepts.

- **Incident response**
 - Chain of custody
 - Inform management/law enforcement as necessary
 - Copy of drive (data integrity and preservation)
 - Documentation of incident
 - **Licensing/digital rights management (DRM)/end-user license agreement (EULA)**
 - Valid licenses
 - Non-expired licenses
 - Personal use license vs. corporate use license
 - Open-source license
 - **Regulated data**
 - Credit card transactions
 - Personal government-issued information
 - PII
 - Healthcare data
 - Data retention requirements
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4.7 Given a scenario, use proper communication techniques and professionalism.

- **Professional appearance and attire**
 - Match the required attire of the given environment
 - Formal
 - Business casual
- **Use proper language and avoid jargon, acronyms, and slang, when applicable**
- **Maintain a positive attitude/project confidence**
- **Actively listen, take notes, and avoid interrupting the customer**
- **Be culturally sensitive**
 - Use appropriate professional titles, when applicable
- **Be on time (if late, contact the customer)**
- **Avoid distractions**
 - Personal calls
 - Texting/social media sites
 - Personal interruptions
- **Dealing with difficult customers or situations**
 - Do not argue with customers or be defensive
 - Avoid dismissing customer problems
 - Avoid being judgmental
 - Clarify customer statements (ask open-ended questions to narrow the scope of the problem, restate the issue, or question to verify understanding)
 - Do not disclose experience via social media outlets
- **Set and meet expectations/time line and communicate status with the customer**
 - Offer repair/replacement options, as needed
 - Provide proper documentation on the services provided
 - Follow up with customer/user at a later date to verify satisfaction
- **Deal appropriately with customers' confidential and private materials**
 - Located on a computer, desktop, printer, etc.



4.8 Identify the basics of scripting.

- **Script file types**
 - .bat
 - .ps1
 - .vbs
 - .sh
 - .js
 - .py
 - **Use cases for scripting**
 - Basic automation
 - Restarting machines
 - Remapping network drives
 - Installation of applications
 - Automated backups
 - Gathering of information/data
 - Initiating updates
 - **Other considerations when using scripts**
 - Unintentionally introducing malware
 - Inadvertently changing system settings
 - Browser or system crashes due to mishandling of resources
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4.9 Given a scenario, use remote access technologies.

- **Methods/tools**
 - RDP
 - VPN
 - Virtual network computer (VNC)
 - Secure Shell (SSH)
 - Remote monitoring and management (RMM)
 - Microsoft Remote Assistance (MSRA)
 - Third-party tools
 - Screen-sharing software
 - Video-conferencing software
 - File transfer software
 - Desktop management software
- **Security considerations of each access method**