

## .3.0 Software Troubleshooting

- 3.1 Given a scenario, troubleshoot common Windows OS problems.
  - Common symptoms
    - Blue screen of death (BSOD)
    - Sluggish performance
    - Boot problems
    - Frequent shutdowns
    - Services not starting
    - Applications crashing
    - Low memory warnings
    - USB controller resource warnings
    - System instability
    - No OS found
    - Slow profile load
    - Time drift

- Common troubleshooting steps
  - Reboot
  - Restart services
  - Uninstall/reinstall/update applications
  - Add resources
  - Verify requirements
  - System file check
  - Repair Windows
  - Restore
  - Reimage
  - Roll back updates
  - Rebuild Windows profiles

- Given a scenario, troubleshoot common personal computer (PC) security issues.
  - Common symptoms
    - Unable to access the network
    - Desktop alerts
    - False alerts regarding antivirus protection
    - Altered system or personal files
      - Missing/renamed files
    - Unwanted notifications within the OS
    - OS update failures

- · Browser-related symptoms
  - Random/frequent pop-ups
  - Certificate warnings
  - Redirection



## Given a scenario, use best practice procedures for malware removal.

- Investigate and verify malware symptoms
- 2. Quarantine infected systems
- 3. Disable System Restore in Windows
- 4.Remediate infected systems
  - a. Update anti-malware software
  - b. Scanning and removal techniques (e.g., safe mode, preinstallation environment)
- 5. Schedule scans and run updates
- 6. Enable System Restore and create a restore point in Windows
- 7. Educate the end user

## Given a scenario, troubleshoot common mobile OS and application issues.

- Common symptoms
  - Application fails to launch
  - Application fails to close/crashes
  - Application fails to update
  - Slow to respond
  - OS fails to update
  - Battery life issues

- Randomly reboots
- Connectivity issues
  - Bluetooth
  - WiFi
  - Near-field communication (NFC)
  - AirDrop

- Screen does not autorotate

- Given a scenario, troubleshoot common mobile OS and application security issues.
  - Security concerns
    - Android package (APK) source
    - Developer mode
    - Root access/jailbreak
    - Bootleg/malicious application
      - Application spoofing
- Common symptoms
  - High network traffic
  - Sluggish response time
  - Data-usage limit notification
  - Limited Internet connectivity
  - No Internet connectivity
  - High number of ads
  - Fake security warnings
  - Unexpected application behavior
  - Leaked personal files/data

