## .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
3.2 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


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

1. 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
3.4 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
3.5 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

