### Exam Objectives that do NOT Exist in Security+ SY0-401 but ARE in SY0-501

**Click here for the practice tests and exam simulations**

<table>
<thead>
<tr>
<th>OBJ/Sub-OBJ</th>
<th>NEW in 501</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 Architecture and Design</td>
<td></td>
</tr>
</tbody>
</table>

3.2 Given a scenario, implement secure network architecture concepts.
- Zones/topologies
  - Segregation/segmentation/isolation
    - DMZ
    - Physical
    - Logical (VLAN)
    - Virtualization
    - Air gaps
- Tunneling/VPN
  - Site-to-site
  - Remote access

3.3 Given a scenario, implement secure systems design.
- Hardware/firmware security
  - FDE/SED
  - UEFI/BIOS
  - Supply chain
  - Hardware root of trust
  - EMI/EMP
- Appliance
- Kiosk
- Mobile OS
  - Secure configurations
- Peripherals
  - Wireless keyboards
  - Wireless mice
  - Displays
  - WiFi-enabled MicroSD cards
  - Printers/MFDs
  - External storage devices
  - Digital cameras

3.4 Explain the importance of secure staging deployment concepts.
3.5 Explain the security implications of embedded systems.
- Wearable technology
- Home automation
  - SoC
  - RTOS
  - Camera systems
  - Special purpose
- Medical devices
- Aircraft/UAV

3.6 Summarize secure application development and deployment concepts.
- Development life-cycle models
  - Waterfall vs. Agile
- Secure DevOps
  - Security automation
  - Immutable systems
  - Infrastructure as code
- Provisioning and deprovisioning
- Secure coding techniques
  - Normalization
  - Stored procedures
  - Obfuscation/camouflage
  - Memory management
  - Use of third-party libraries and SDKs
  - Data exposure
- Code quality and testing
  - Stress testing
  - Model verification
- Compiled vs. runtime code

3.7 Summarize cloud and virtualization concepts.
- VM sprawl avoidance
- VM escape protection
- VDI/VDE
- Cloud access security broker

3.8 Explain how resiliency and automation strategies reduce risk.
- Automation/scripting
  - Automated courses of action
- Templates
- Master image
- Non-persistence
  - Snapshots
  - Revert to known state
  - Rollback to known configuration
3.9 Explain the importance of physical security controls.

- Airgap
- Faraday cage
- Screen filters