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

Click here for the practice tests and exam simulations

OBJ/Sub-OBJ		NEW in 501
3.0 Architecture and Design		
3.2 Given a scenario, implement secure network architecture concepts.		
· Zones/topologies		
o DMZ 1.3 DMZ		
· Segregation/segmentation/isolation		**Main sub-obj. 4.5 for below**
o Physical	**4.5**	NEW
o Logical (VLAN)	**4.5**	NEW
o Virtualization	**4.5**	NEW
o Air gaps		NEW
· Tunneling/VPN	**New- 4.0 is Wireless only**	
o Site-to-site	**New- 4.0 is Wireless only**	
o Remote access	**New- 4.0 is Wireless only**	
· Security device/technology placement		
o SSL accelerators		NEW
o Aggregation switches		NEW
o Taps and port mirror		NEW
· SDN		NEW
3.3 Given a scenario, implement secure systems design.		
· Hardware/firmware security		
o FDE/SED		NEW
o UEFI/BIOS		NEW
o Supply chain		NEW
o Hardware root of trust		NEW
o EMI/EMP		
· Appliance		NEW
· Kiosk		NEW
· Mobile OS		
o Secure configurations		NEW
· Peripherals		
o Wireless keyboards		NEW
o Wireless mice		NEW
o Displays		NEW
o WiFi-enabled MicroSD cards		NEW
o Printers/MFDs		NEW
o External storage devices		NEW
o Digital cameras		NEW
3.4 Explain the importance of secure staging deployment concepts.		

· Integrity measurement			
3.5 Explain the security implications of embedded systems.			
o Wearable technology	NEW		
o Home automation			
· SoC	NEW		
· RTOS	NEW		
· Camera systems	NEW		
· Special purpose	NEW		
o Medical devices	NEW		
o Aircraft/UAV	NEW		
3.6 Summarize secure application development and deployment concepts.			
· Development life-cycle models	NEW		
o Waterfall vs. Agile	NEW		
· Secure DevOps	NEW		
o Security automation	NEW		
o Immutable systems	NEW		
o Infrastructure as code	NEW		
· Provisioning and deprovisioning	NEW		
· Secure coding techniques			
o Normalization		NEW	
o Stored procedures		NEW	
o Obfuscation/camouflage		NEW	
o Memory management		NEW	
o Use of third-party libraries and SDKs		NEW	
o Data exposure		NEW	
· Code quality and testing			
o Stress testing	NEW		
o Model verification	NEW		
· Compiled vs. runtime code	NEW		
3.7 Summarize cloud and virtualization concepts.			
· VM sprawl avoidance	NEW		
· VM escape protection	NEW		
· VDI/VDE	NEW		
· Cloud access security broker	NEW		
3.8 Explain how resiliency and automation strategies reduce risk.			
· Automation/scripting			
o Automated courses of action	NEW		
· Templates	NEW		
· Master image	NEW		
· Non-persistence	NEW		
o Snapshots	NEW		
o Revert to known state	NEW		
o Rollback to known configuratic	NEW		

o Live boot media	NEW	
· Scalability	NEW	
· Distributive allocation	NEW	
3.9 Explain the importance of physical security controls.		
· Airgap	NEW	
· Faraday cage	NEW	
· Screen filters	NEW ?	