



## Domain 4: Communication and Network Security

### 4.1 Implement secure design principles in network architectures

- » Open System Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models
- » Internet Protocol (IP) networking
- » Implications of multilayer protocols
- » Converged protocols
- » Software-defined networks
- » Wireless networks

### 4.2 Secure network components

- » Operation of hardware
- » Transmission media
- » Network Access Control (NAC) devices
- » Endpoint security
- » Content-distribution networks

### 4.3 Implement secure communication channels according to design

- » Voice
- » Multimedia collaboration
- » Remote access
- » Data communications
- » Virtualized networks