

Broadband Services Level 3

10150102

Information Security

Credits: 3

This course will cover hardware, software, and the physical environment related to IT security. The processes of defense, prevention, detection, and response will be studied. Typical types of attacks will be studied and potential solutions or defenses will be explored. Networking and operating system experience is required along with a code of ethics. This course covers topics related to the CompTIA Security+ exam. PREREQUISITE: 10154103 Linux Operating Systems.

10150111

Cisco CCNA 1 Introduction to Networks

Credits: 3

Cisco CCNA 1 Introduction to Networks (ITN) covers networking architecture, structure, and functions. The course introduces IPv4 and IPv6 addressing structure and design, the fundamentals of Ethernet concepts, media, and operations, the OSI and TCP/IP models and associated protocols to set a strong networking foundation. Wireshark is used to examine protocols on the network. Students configure and troubleshoot routers (IOS), switches and clients for a basic network.

10150113

Cisco CCNA 2 Routing and Switching Essentials

Credits: 3

Cisco CCNA 2 Routing and Switching Essentials (RSE) covers the architecture, components, and operations of routers and switches in a small network. Students learn how to configure, device management, switch ports, security, VLANs, Static and Dynamic routing, DHCP (v4 and v6), NAT and ACLs on routers and switches. At the completion of this course student may achieve a discount voucher for the CCENT certification exam. PREREQUISITE: 10150111 Cisco CCNA 1 Introduction to Networks.

10150112

Cisco CCNA 3 Scaling Networks

Credits: 3

Cisco CCNA 3 Scaling Networks (ScaN) covers the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot: VLANs spanning multiple switches: VTP, DTP and EtherChannel STP protocols: Rapid Spanning Tree Protocol (RSTP), Per VLAN Spanning Tree Plus Protocol (PVST+), Rapid Per VLAN Spanning Tree Plus Protocol (RPVST+), first hop redundancy protocols (HSRP) single and multi-area OSPF, Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv4 or IPv6 networks. PREREQUISITE: 10150113 Cisco CCNA 2 Routing and Switching Essentials.

10150114

Cisco CCNA 4 Connection Networks

Credits: 3

Cisco CCNA 4 Connecting Networks(CN), This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Configure, verify and troubleshoot: HDLC, PPP, PPPoE, virtual private networks (VPNs), eBGP in a single-homed, IPv4 and IPv6 ACLs, SNMP monitoring, SPAN, QoS, and describe Cloud Computing, IOT and Network Programmability in an enterprise network architecture. At

the completion of this course student may achieve a discount voucher for the CCNA Routing and Switching certification exam. PREREQUISITES: 10150112 Cisco CCNA 3 Scaling Networks.

10150109

Wireless LANs

Credits: 3

Wireless LANs is an introductory course that will focus on the design, planning, implementation, operation and troubleshooting of wireless networks. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands-on skills.

PREREQUISITE: 10150113 Cisco CCNA 2 Routing and Switching Essentials.

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Fiber Optics Outside Plan 301

Credits: 2

Fiber Optic Network Design and Implementation is gaining momentum as a viable solution for bringing fiber relatively inexpensively to our businesses and homes. Many products and solutions are being developed based on PON (passive optical networks) technology. The material in this product is based on the ITU-T G.983 specifications. This class will benefit those with little or no fiber experience.