Networking Professional
17-150-5 Technical Certificate

Overview
The Networking Professional certificate is designed to give information technology professionals a path to complete industry certification while advancing their skills. Students should have experience in information technology or broadband technologies.

Special Feature
Friendly, skilled instructors with an emphasis in a hands-on teaching environment will teach the courses. Topics within the certificate will help prepare the student for industry certification in the Cisco Certified Networking Associate (CCNA).

Outcomes
Employers will expect graduates of this certificate to:
- Configure hardware and software
- Plan and implement routers into TCP/IP network infrastructure
- Plan, implement, and support wired and wireless networks

Career Outlook
Graduates of this certificate will enhance their careers as:
- Network/Technical Coordinators
- Network Administrator/Managers
- Network Technician or Support Specialists
- Computer Support Specialists

Related Program
- Information Technology - Network Specialist

Course Descriptions

10150109 Wireless LANs - 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) and switches. At the completion of this course student may achieve a discount voucher for the CCENT certification exam. PREREQUISITE: 10838104 Introduction to Reading.

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) and switches. At the completion of this course student may achieve a discount voucher for the CCENT certification exam. PREREQUISITE: 10838104 Introduction to Reading.

10150112 Cisco CCNA 3 Scaling Networks - Credits: 3
Cisco CCNA 3 Scaling Networks (ScalN) 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, STP and EtherChannel STP protocols; Rapid Spanning Tree Protocol (RSTP), Per VLAN Spanning Tree Plus Protocol (PVST+), Rapid Per VLAN Spanning Tree Plus Protocol (RPPVST+), first hop redundancy protocols (HSRP) single and multi-area OSPF, Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv4 or IPv6 networks. PREREQUISITE: 10150111 Cisco CCNA 2 Routing and Switching Essentials.

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: 10150113 Cisco CCNA 2 Routing and Switching Essentials.

10150114 Cisco CCNA 4 Connecting 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, IPv4, 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. PREREQUISITE: 10150112 Cisco CCNA 3 Scaling Networks..