



# Tooele Technical College

88 S Tooele Blvd, Tooele, UT 84074

435-248-1800

<b>Certificate Syllabus</b>		<b>Network Engineer (CCNA)</b>
Certificate 1 Year (Catalog Year: 2019)		
<b>Tooele Tech Core (970 hours required)</b>		Hours
<i>Network Engineer(CCNA) (970 hours required)</i>		<i>Hours</i>
<i>Computer Literacy for IT (ITEC1011)</i>		90.00
<i>Computing Basics (1)</i>		15.00
<i>Micorsoft Word (2)</i>		20.00
<i>Microsoft Excel (3)</i>		20.00
<i>Microsoft PowerPoint (4)</i>		20.00
<i>Microsoft Access (5)</i>		15.00
<i>A+ Essentials and Practical Applications (Computer Based Training) (ITEC1655)</i>		120.00
<i>1.0 Computing Overview (1)</i>		5.00
<i>PC Technician (2)</i>		5.00
<i>System Components (3)</i>		5.00
<i>Peripheral Devices (4)</i>		5.00
<i>Storage (5)</i>		5.00
<i>Networking (6)</i>		5.00
<i>Printing (7)</i>		5.00
<i>Mobile Devices (8)</i>		5.00
<i>Windows System Management (9)</i>		5.00
<i>System Implementation (10)</i>		5.00
<i>File Management (11)</i>		5.00
<i>Security (12)</i>		5.00
<i>Troubleshooting (13)</i>		5.00
<i>Capstone Exercise (14)</i>		10.00
<i>PC Pro Certification Practice Exams (15)</i>		15.00
<i>Practice Exams (16)</i>		15.00
<i>Practice Exams (17)</i>		15.00
<i>A+ Essentials and Practical Applications I (ITEC1801)</i>		90.00
<i>First Look at Computer Parts and Tools (1)</i>		10.00
<i>Working inside a Desktop Computers and Laptops (2)</i>		8.00
<i>All about Motherboards (3)</i>		8.00
<i>Supporting Processors and Upgrading Memory (4)</i>		8.00
<i>Supporting the Power System and Troubleshooting Computers (5)</i>		8.00
<i>Supporting Hard Drives and Other Storage Devices (6)</i>		8.00
<i>Survey of Windows Features and Support Tools (7)</i>		8.00

<i>Installing Windows (8)</i>	8.00
<i>Supporting I/O Devices (9)</i>	8.00
<i>Maintaining Windows (10)</i>	8.00
<i>Optimizing Windows (11)</i>	8.00
<b>A+ Essentials and Practical Applications II (ITEC1802)</b>	<b>90.00</b>
<i>Supporting Customers and Troubleshooting Windows (12)</i>	8.00
<i>Troubleshooting Windows Startup (13)</i>	8.00
<i>Connecting to and setting up a Network (14)</i>	8.00
<i>Supporting Network Hardware (15)</i>	8.00
<i>Supporting Mobile Operating Systems (16)</i>	8.00
<i>Windows Resources on a Network (17)</i>	8.00
<i>Security Strategies (18)</i>	8.00
<i>Supporting Printer and Customizing a System (19)</i>	8.00
<i>Virtualization, Linux, and Mac OS X (20)</i>	8.00
<i>Final Test and Preparation for CompTIA A+ 220-901 and 220-902 (21)</i>	18.00
<b>Network + (ITEC1605)</b>	<b>120.00</b>
<i>Introduction to Networking (1)</i>	9.00
<i>Network Infrastructure and Documentation (2)</i>	9.00
<i>Addressing on Networks (3)</i>	9.00
<i>Network Protocols and Routing (4)</i>	9.00
<i>Network Cabling (5)</i>	9.00
<i>Wireless Networking (6)</i>	9.00
<i>Virtualization and Cloud Computing (7)</i>	9.00
<i>Subnets and VLANs (8)</i>	9.00
<i>Network Risk Management (9)</i>	9.00
<i>Security in Network Design (10)</i>	9.00
<i>Network Performance and Recovery (11)</i>	9.00
<i>Wide Area Networks (12)</i>	9.00
<i>Final Test and Preparation for CompTIA Net+ Exam (13)</i>	12.00
<b>Network + (Computer Based Training (ITEC1606)</b>	<b>80.00</b>
<i>Networking Basics (1)</i>	4.00
<i>Cables and Connectors (2)</i>	4.00
<i>Networking Devices (3)</i>	4.00
<i>Ethernet (4)</i>	4.00
<i>IP Configuration (5)</i>	4.00
<i>Switch Management (6)</i>	4.00
<i>Routing (7)</i>	4.00
<i>Firewalls (8)</i>	4.00
<i>Network Customization (9)</i>	4.00
<i>Wireless Networking (10)</i>	4.00
<i>Wide Area Networks (WANS) (11)</i>	4.00
<i>Network Policies and Procedures (12)</i>	4.00
<i>Network Security (13)</i>	4.00
<i>Network Hardening (14)</i>	4.00

<i>Network Management (15)</i>	4.00
<i>Network Optimization (16)</i>	4.00
<i>Network Pro Practice Exams (17)</i>	8.00
<i>Network + Practice Exams (18)</i>	8.00
<b>Cisco CCNA: Introduction to Networks (ITEC1610)</b>	<b>90.00</b>
<i>Explore the Network Pre-Test Exam (1)</i>	6.00
<i>Configure a Network Operating System (2)</i>	6.00
<i>Network Protocols and Communications (3)</i>	6.00
<i>Network Access (4)</i>	6.00
<i>Ethernet (5)</i>	6.00
<i>Network layer (6)</i>	6.00
<i>IP Addressing (7)</i>	6.00
<i>Subnetting IP Networks (8)</i>	6.00
<i>Transport Layer (9)</i>	6.00
<i>Application Layer (10)</i>	6.00
<i>Build a Small Network (11)</i>	6.00
<i>Hands On Skills Exam (12)</i>	12.00
<i>Final Exam (13)</i>	12.00
<b>Cisco CCNA: Routing and Switching Essentials (ITEC1615)</b>	<b>90.00</b>
<i>Routing Concepts Pre-Test exam (1)</i>	8.00
<i>Static Routing (2)</i>	6.00
<i>Routing Dynamically (3) (3)</i>	6.00
<i>Switched Networks (4)</i>	6.00
<i>Switch Configuration (5)</i>	6.00
<i>VLAN's (6)</i>	6.00
<i>Access Control Lists (7)</i>	8.00
<i>DHCP (8)</i>	6.00
<i>NAT for IPv4 (9)</i>	6.00
<i>Device Discovery, Management, and Maintenance (10)</i>	8.00
<i>Hands on Skill Exam (11)</i>	12.00
<i>Final Exam (12)</i>	12.00
<b>Cisco CCNA: Scaling Networks (ITEC1620)</b>	<b>90.00</b>
<i>LAN Design Pre-Test exam (1)</i>	7.00
<i>Scaling VLANS (2)</i>	7.00
<i>STP (3)</i>	7.00
<i>EtherChannel and HSRP (4)</i>	7.00
<i>Dynamic Routing (5)</i>	7.00
<i>EIGRP (6)</i>	7.00
<i>EIGRP Tuning and Troubleshooting (7)</i>	7.00
<i>Single-Area OSPF (8)</i>	7.00
<i>Multiarea OSPF (9)</i>	7.00
<i>OSPF Tuning and Troubleshooting (10)</i>	7.00
<i>Hands on Skills Exam (11)</i>	10.00
<i>Final (12)</i>	10.00

<i>Cisco CCNA: Connecting Networks (ITEC1625)</i>	90.00
<i>WAN Concepts (1)</i>	8.00
<i>Point to Point Connections (2)</i>	8.00
<i>Branch Connections (3)</i>	8.00
<i>Access Control Lists (4)</i>	8.00
<i>Network Security and Monitoring (5)</i>	8.00
<i>Quality of Service (6)</i>	8.00
<i>Network Evolution (7)</i>	8.00
<i>Network Troubleshooting (8)</i>	8.00
<i>Hands on Skill Exam (9)</i>	12.00
<i>Final (10)</i>	14.00
<i>Workplace Relations (WKSK1501)</i>	20.00
<i>Attitude (1)</i>	5.00
<i>Time Management (2)</i>	5.00
<i>Communication (3)</i>	5.00
<i>Conflict Resolution/Relationship Building (4)</i>	5.00
<b>Tooele Tech Recommended Course (0 hours required)</b>	Hours
<i>Network Engineer(CCNA) (0 hours required)</i>	Hours
<i>Keyboarding Basics (BTEC1000)</i>	30.00
<i>Lesson 1-6 (1)</i>	10.00
<i>Lesson 7-12 (2)</i>	10.00
<i>Lesson 13-18 &amp; final assessment (3)</i>	10.00