



Tooele Technical College

88 S Tooele Blvd, Tooele, UT 84074

435-248-1800

Certificate Syllabus		Network Administrator(MCSA)
Certificate 1 Year (Catalog Year: 2019)		
Tooele Tech Core (1210 hours required)		Hours
<i>Network Administrator(MCSA) (1210 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
A+ Essentials and Practical Applications (Computer Based Training) (ITEC1655)		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
A+ Essentials and Practical Applications I (ITEC1801)		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
A+ Essentials and Practical Applications II (ITEC1802)	90.00
<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
Network + (ITEC1605)	120.00
<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
Network + (Computer Based Training (ITEC1606)	80.00
<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
<i>Installation, Storage, and Compute with Windows Server 2016 (70-740) (ITEC1820)</i>	140.00
<i>Lesson 1 - Introducing Windows Server 2016 (1)</i>	7.00
<i>Lesson 2 - Installing, Upgrading, and Migrating Servers and Workloads (2)</i>	7.00
<i>Lesson 3 - Configuring Disks and Volumes (3)</i>	7.00
<i>Lesson 4 - Implementing Server Storage (4)</i>	7.00
<i>Lesson 5 - Implementing Data Deduplication (5)</i>	7.00
<i>Lesson 6 - Creating, Managing, and Maintaining Images for Deployment (6)</i>	7.00
<i>Lesson 7 - Installing and Configuring Hyper-V (7)</i>	7.00
<i>Lesson 8 - Configuring Virtual Machine (VM) Settings (8)</i>	7.00
<i>Lesson 9 - Configuring Hyper-V Storage (9)</i>	7.00
<i>Lesson 10 - Configuring Hyper-V Networking (10)</i>	7.00
<i>Lesson 11 - Installing and Configuring the Windows Nano Server (11)</i>	7.00
<i>Lesson 12 - Deploying and Managing Windows Containers (12)</i>	7.00
<i>Lesson 13 - Implementing Failover Clustering (13)</i>	7.00
<i>Lesson 14 - Managing Failover Clustering (14)</i>	7.00
<i>Lesson 15 - Implementing High Availability and Disaster Recovery Options in Hyper-V (15)</i>	7.00
<i>Lesson 16 - Implementing Storage Spaces Direct (16)</i>	7.00
<i>Lesson 17 - Implementing Network Load Balancing (NLB) (17)</i>	7.00
<i>Lesson 18 - Maintaining Server Installations (18)</i>	7.00
<i>Lesson 19 - Monitoring Server Installations (19)</i>	7.00
<i>Study for 70-740 Exam (20)</i>	7.00
<i>Windows Server Pro 2016 CBT (70-740) (ITEC1821)</i>	180.00
<i>1 - Introduction to Windows Server (1)</i>	10.00
<i>2 - Server Installation (2)</i>	10.00
<i>3 - Server Configuration and Management (3)</i>	10.00
<i>4 - Networking (4)</i>	10.00
<i>5 - Server Storage (5)</i>	10.00
<i>6 - Hyper-V (6)</i>	10.00
<i>7 - Active Directory (7)</i>	10.00
<i>8 - Group Policy (8)</i>	10.00
<i>9 - DNS (9)</i>	10.00
<i>10 - File and Share Access (10)</i>	10.00
<i>11 - Print and Document Services (11)</i>	10.00
<i>12 - Server Management (12)</i>	10.00
<i>13 - DHCP (13)</i>	10.00
<i>14 - Containers (14)</i>	10.00
<i>15 - High Availability (15)</i>	10.00
<i>16 - Server Pro Practice Exams (16)</i>	15.00
<i>17 - Microsoft 70-740 Practice Exams (17)</i>	15.00
<i>Networking with Windows Server 2016 (70-741) (ITEC1822)</i>	140.00

<i>Lesson 1 - Implementing IPv4 and IPv6 addressing (1)</i>	9.00
<i>Lesson 2 - Installing and Configuring DNS Servers (2)</i>	9.00
<i>Lesson 3 - Creating and Configuring DNS Zones and Records (3)</i>	9.00
<i>Lesson 4 - Installing and Configuring DHCP (4)</i>	9.00
<i>Lesson 5 - Managing and Maintaining DHCP (5)</i>	9.00
<i>Lesson 6 - Installing and Configuring IP Address Management (IPAM) (6)</i>	9.00
<i>Lesson 7 - Managing and Using IPAM (7)</i>	9.00
<i>Lesson 8 - Implement Network Connectivity Solutions (8)</i>	9.00
<i>Lesson 9 - Implementing Virtual Private Network (VPN) and DirectAccess Solutions (9)</i>	10.00
<i>Lesson 10 - Implementing Network Policy Server (NPS) (10)</i>	10.00
<i>Lesson 11 - Implementing Distributed File System (DFS) and Branch Office Solutions (11)</i>	10.00
<i>Lesson 12 - Implementing High-Performance Network Solutions (12)</i>	10.00
<i>Lesson 13 - Determining Scenarios and Requirements for Implementing Software Defined Networking (SDN) (13)</i>	10.00
<i>Final and Study for the Microsoft 70-741 EXAM (14)</i>	18.00
Identity with Windows Server 2016 (70-742) (ITEC1823)	140.00
<i>Installing and Configuring Domain Controllers (1)</i>	8.00
<i>Configuring and Managing Active Directory Users and Computers (2)</i>	8.00
<i>Creating and Managing Active Directory Groups and Organizational Units (OUs) (3)</i>	8.00
<i>Configuring Service Authentication and Account Policies (4)</i>	8.00
<i>Maintaining Active Directory (5)</i>	8.00
<i>Configuring Active Directory in a Complex Enterprise Environment (6)</i>	8.00
<i>Creating and Managing Group Policy Objects (GPOs) (7)</i>	8.00
<i>Configuring Group Policy Processing (8)</i>	8.00
<i>Configuring Group Policy Settings (9)</i>	8.00
<i>Configuring Group Policy Preferences (10)</i>	8.00
<i>Installing and Configuring Active Directory Certificate Services (11)</i>	8.00
<i>Managing Certificates (12)</i>	8.00
<i>Installing and Configuring Active Directory Federation Services (13)</i>	8.00
<i>Implementing Web Application Proxy (WAP) (14)</i>	8.00
<i>Installing and Configuring Active Directory Rights Management Services (AD RMS) (15)</i>	8.00
<i>70 742 Final and Certification Prep (16)</i>	20.00
Workplace Relations (WKSK1501)	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
Tooele Tech Recommended Course (0 hours required)	Hours
Network Administrator(MCSA) (0 hours required)	Hours
Keyboarding Basics (BTEC1000)	30.00
<i>Lesson 1-6 (1)</i>	10.00
<i>Lesson 7-12 (2)</i>	10.00
<i>Lesson 13-18 & final assessment (3)</i>	10.00