



5E

DIGITAL

TECHNOLOGY

HUB

IT COURSES

2 0 1 7

**EQUALITY
EMPOWERMENT
EDUCATION
EMPLOYMENT
ENTERPRISE**

**IT PROFESSIONAL
SERVER
NETWORKING
SECURITY
CLOUD AND STORAGE
MANAGEMENT**

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ABOUT US

Remain equipped for today's IT industry demands, with the best in skills and experience...

The IT industry is changing EVERY single day, with new technologies, software and hardware developments and implementations. It is vital to remain competitive in this evolving industry and get certified in the latest qualifications, whichever area of IT you are interested in exploring.

An Academy Leader

5E Ltd prides itself on its IT Academy status across SEVEN vendor bodies (Cisco, Microsoft, CompTIA, VMware, EMC, Juniper, Citrix) as well as its membership as a Microsoft GOLD Partner with access to the best vendor training resources. The Pearson VUE in-house testing facilities streamline your learning and development and enable the fastest and most comprehensive pathway to your achievements.

Excellent facilities

Our labs and centres are equipped with the latest computer hardware and software facilities for your training. In fact, we are considered to be one of the best equipped training providers in North London!

Experienced + Certified Trainers

Our courses are run by professional, highly qualified, friendly and experienced staff members with vendor based qualifications under their belt. With over 15 years of advanced IT delivery with senior expert trainers, you are in the best place for a tailored, hands-on and supportive learning experience.

Individual Service

Many of 5E's IT training courses can be tailored to meet trainees' individual needs, including extra evening lab and trainer sessions to boost your learning development. With innovative methods of learning including online video and learning resources and realtime video conferencing, we hope you will find training with us to be one of the most rewarding times of your life.

Employment Support

Our end-to-end delivery means we can provide support with employability skills and job search facilities to jump into a better job for the best career prospects with your new, updated skillset!



Would you like an exciting career change in IT?

The best careers are
backed up by smart
choices at the **RIGHT
MOMENT...**
This is **YOUR** MOMENT



Why IT? Financial freedom and future success

In an uncertain world
an IT **PROFESSIONAL**
has a **CERTAIN** CAREER

What about your salary?

Microsoft Certified Systems Engineer	£29,000 - £37,500
Microsoft Certified Database Administrator	£32,000 - £37,500
Cisco Certified Networking Engineer	£35,000 - £43,500
Juniper Certified Engineer	£35,000 - £40,000
CheckPoint Certified Security Administrator	£32,000 - £37,500
VMware Certified Professional (VCP)	£37,000 - £45,000
ITIL Foundation	£35,000 - £42,500
Hardware Technician (CompTIA)	£22,500 - £29,000

Source: www.itjobswatch.com

Why US?

What makes us the **BEST CHOICE**

- > Fully tutor-led classroom training
- > Flexibility (daytime/evenings/weekends)
- > Friendly, experienced, certified trainers
- > Practical labs with full IT Academy status
- > Extra 1:1 support
- > Online access to course materials 24/7
- > Excellent programme success rate
- > Employment support with specialist advisors





Introduction

Choosing the right IT course could give you the key to a brighter future. We have a wide range of IT courses that will widen your skills and greatly improve your career opportunities.

These courses vary from desktop support to computer networking and computer maintenance. The courses in this section will enable you to branch out into specialist areas of IT.

IT professional Will give you a Financial freedom prospects for the future success and certain career

A person wearing a red long-sleeved shirt and dark trousers is working on a server rack. They are leaning over the rack, which is filled with various electronic components and cables. The background is a solid blue color.

IT PROFESSIONAL

Our comprehensive IT Professional qualifications from CompTIA are designed to provide a wide-ranging foundation to understanding, operating, configuring and managing IT hardware and software and troubleshooting problems relating to portables, printers, peripherals, components, operating systems and network connectivity. Students can choose to progress onto a specialist networking qualification.

“5E Ltd is the place that trained me to be an excellent Microsoft engineer; good enough to win 1st place in the Worldskills Regional Network Administration Tournament”

Adnan Khawaja

08 CompTIA IT Fundamentals

09 CompTIA A+



CompTIA

IT Fundamentals

Prove that you know today's technologies with CompTIA IT Fundamentals.

From networking and cybersecurity essentials to hardware and software basics, IT Fundamentals demonstrates your readiness for the digital workplace.

The CompTIA IT Fundamentals exam is designed to help you learn more about the world of information technology (IT). It's ideal if you're considering a career in IT or if you work in an allied field that requires a broad understanding of IT. CompTIA IT Fundamentals can also be a stepping stone to more advanced certifications such as CompTIA A+, and, with specialized experience, CompTIA Network+ and CompTIA Security+.

The CompTIA IT Fundamentals Certification is an entry level certification designed to introduce users to basic computer principles. It covers basic IT literacy and ensures one understands the different terminology and the various concepts involved in the IT industry. It also serves as a great starting point if you are just getting started in computers and is designed to be the first step on your way to pursuing the CompTIA A+ certification or others similar. Topics covered include hardware basics, troubleshooting, software installation, security and also networking.

Exam Code:

FC0-U51

Price:

£879.20

Duration:

8 Weeks

Skills You Will Gain

- Identifying and explaining computer components
- Installing software
- Establishing network connectivity
- Preventing security risks.



Job Prospects

- Junior IT Technician
- 1st / 2nd Line support
- Hardware Engineer



Prerequisite

- No prior experience necessary



Progression

- CompTIA Courses
- Microsoft Courses
- Cisco Courses
- Level 3+ IT Diplomas



Exam Track

- FC0-U51 CompTIA IT Fundamentals

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Exam Code:
**220-901,
220-902**

Price:
£1,928.00

Duration:
12 Weeks

CompTIA
A+

The A+ Certification validates the latest skills needed by computer support professionals.

It is an international, vendor-neutral certification recognised by major hardware and software vendors, distributors and resellers. The A+ Certification confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking. The exams also cover domains such as security, environment and communication and professionalism.

Skills You Will Gain

- Install, configure and troubleshoot personal computer components
- Troubleshoot problems with laptops and peripherals
- Install, configure and troubleshoot printers
- Install, configure and troubleshoot network connections
- Install and upgrade operating systems
- Install hardware, software and data security



Job Prospects

- Junior IT Technician
- 1st / 2nd Line support
- Hardware Engineer



Prerequisite

- Level 2 Hardware Skills



Progression

- CompTIA Courses
- Microsoft
- Cisco
- Level 3 Diploma



Exam Track

- 220-901 PC Covers hardware and peripherals, mobile device hardware, networking and troubleshooting hardware and network connectivity issues
- 220-902 Covers installing and configuring operating systems including Windows, iOS, Android, Apple OS X and Linux. It also addresses security, the fundamentals of cloud computing and operational procedures.



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SERVER

Our server curriculum is focused on the globally recognised Microsoft Server 2012 platform through the MCSA and MCSE qualifications. You will be able to install, manage and configure the Microsoft Server environment within our high-quality, well-equipped labs with the latest facilities and technology available at your fingertips. We have also begun an MCSA qualification under Windows Server 2016, the next version that is yet to be adopted as a mainstream server platform.

“Each day is exciting and insightful; with the help of 5E, my future prospects are bright and boundless”

MacDonald Campbell

- 12** MCSE
- 13** MCSA - 2016
- 14** MCSA
- 15** LINUX LPI 1.5



Microsoft
CERTIFIED

Solutions Associate

Windows Server 2012

Microsoft
CERTIFIED

Solutions Expert

Server Infrastructure



MCSE

Server Infrastructure

The Microsoft Certified Solutions Expert (MCSE):

Server Infrastructure certification validates that you have the skills needed to run a highly efficient and modern data centre, with expertise in identity management, systems management, virtualisation, storage and networking.

Exam Code:

**410, 411, 412,
413, 414**

Price:

£2,778.00

Duration:

6 Months

Skills You Will Gain

- Server O/S installation, configuration and maintenance
- Active Directory
- Determining problems and troubleshooting
- Disaster recovery



Job Prospects

- Network Analyst
- Systems Administrator
- Server Administrator
- Network Technician



Prerequisite

- Level 3 Networking certification



Progression

- MCITP: Enterprise Administrator



Exam Track

- 70-410: Installing and Configuring Windows Server 2012, Configuring
- 70-411: Administering Windows Server 2012, Configuring
- 70-412: Configuring Advanced Windows Server 2012 Services
- 70-413: Designing and Implementing a Server Infrastructure
- 70-414: Implementing an Advanced Server Infrastructure

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Microsoft
CERTIFIED
Solutions Expert
Server Infrastructure

Exam Code:

**740, 741,
742**

Price:

£2,256.80

Duration:

4 Months

MCSA

Windows Server 2016 certification

Earning a Microsoft Certification validates your proven experience and knowledge in using Microsoft products and solutions.

The MCSA 2016 credential validates your ability to manage and troubleshoot network environments in the Windows operating system.

This certification is crucial in advancing your career as an IT professional.

Designed to be relevant in today's rapidly changing IT marketplace, Microsoft Certifications help you utilise evolving technologies, fine-tune your troubleshooting skills, and improve your job satisfaction.

Skills You Will Gain

- Server o/s installation, configuration and maintenance
- Active directory and virtualisation
- Determining problems and troubleshooting
- Identity management and networking



Job Prospects

- Network Analyst
- Systems Administrator
- Network Technician



Prerequisite

- Level 3 Networking certification / or equivalent



Progression

- Microsoft Certified Solutions Expert (MCSE)



Exam Track

- 70-740 Installation, Storage, and Compute with Windows Server 2016
- 70-741 Networking with Windows Server 2016
- 70-742 Identity with Windows Server 2016

**Microsoft
CERTIFIED**

Solutions Associate

Windows Server 2012

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MCSA

Server infrastructure 2012

Earning a Microsoft Certification validates your proven experience and knowledge in using Microsoft products and solutions.

The MCSA 2012 credential validates your ability to manage and troubleshoot network environments in the Windows operating system.

This certification is crucial in advancing your career as an IT professional.

Designed to be relevant in today's rapidly changing IT marketplace, Microsoft Certifications help you utilise evolving technologies, fine-tune your troubleshooting skills, and improve your job satisfaction.

Exam Code:

**410,411,
412**

Price:

£2,006.80

Duration:

4 Months

Skills You Will Gain

- Server O/S installation, configuration and maintenance
- Active Directory
- Exchange
- SQL Server Design & Implementation
- Server Design & Implementation
- Determining problems and troubleshooting
- Disaster recovery



Job Prospects

- Network Analyst
- Systems Administrator
- Server Administrator
- Network Technician



Prerequisite

- Network+ Course and/or certification



Progression

- Microsoft Certified Solutions Expert (MCSE).



Exam Track

- 410 Installing and Configuring Windows Server 2012
- 411 Administering Windows Server 2012
- 412 Configuring Advanced Windows Server 2012 Services

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Microsoft
CERTIFIED

Solutions Associate

Windows Server 2012

Exam Code:

010-150

Price:

£1,264.00

Duration:

8 Weeks

LPI Linux Essential Version 1.5

Linux adoption continues to rise world-wide as individual users, government entities and industries ranging from automotive to space exploration embrace open source technologies

This expansion of open source in enterprise is redefining traditional Information and Communication Technology (ICT) job roles to require more Linux skills. Whether you're starting your career in open source, or looking for advancement, independently verifying your skill set can help you stand out to hiring managers or your management team.

Linux has grown into an industry-leading software and service delivery platform that is used for everything from super computers and Web servers to virtualized systems and your Android phone. This growth creates a high demand for qualified Linux professionals. With LPI certification, you'll acquire the fundamental skills and knowledge you need to successfully configure, manage and troubleshoot Linux systems.

Skills You Will Gain

- Linux Distributions
- Linux command line & basic maintenance
- Installing and configuring Linux
- Services and networking.



Job Prospects

- IT Systems Engineer
- Linux System & Network Administrator
- Infrastructure Engineer - Windows and linux support



Prerequisite

- L3 Certificate / Server or Networking Experience



Progression

- Red Hat System Admin - RHSA
- Red Hat Certified Engineer – RHSE
- Microsoft Courses
- Cisco Courses



Exam Track

- 010-150 LPI Linux Essential Version 1.5



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NETWORKING

Our networking qualifications reinforce the industry-standard expectation of knowledge and skills with operating, configuring and maintaining Cisco networking hardware and Junos operating system and devices including routing, switching and other technical aspects included in the role of a network administrator or professional.

“5E offers a great apprenticeship program which has helped me a lot to gain real work experience”

Patryk Droza

- 11** CCNA
- 12** CCNP
- 13** Juniper JRE
- 14** Juniper IJOS
- 22** Juniper JNCIA-Junos



CCNA

Cisco Certified Network Associate

CCNA is an internationally recognised qualification for IT professionals specialising in networking.

This exam tests a candidate's knowledge and skills related to network fundamentals, LAN switching technologies, IPv4 and IPv6 routing technologies, WAN technologies, infrastructure services, infrastructure security, and infrastructure management.

Exam Code:
200-125

Price:
£1,335.20

Duration:
**6 Months /
22 Weeks**

What You'll Learn

Network Fundamentals:

Introduces students to networking concepts and technologies. They develop the skills necessary to implement small networks across a range of applications.

Routing Protocols and Concepts:

Students develop an understanding of how a router learns about remote networks and determines the best path to those remote networks. Students are introduced to both static routing and dynamic routing protocols.

LAN Switching and Wireless:

Students develop an understanding of how switches are interconnected and configured to provide network access to LAN users. They will also learn how to integrate wireless devices into a LAN.

Accessing the WAN:

Introduces students to wide area networking concepts and technologies. They will also be introduced to some of the protocols used in wide area networking.



Job Prospects

- Network technician
- Support engineer
- Network administrator
- Network specialist
- Network engineer



Prerequisite

- There are no formal entry requirements but the course is aimed at IT Professionals.



Progression

- Cisco CCNP Routing and Switching



Exam Track

- 200-125 CCNA Routing and Switching



Exam Code:
300-101, 300-115, 300-135

Price:
£3,296.60

Duration:
**6 Months /
24 Weeks**

Cisco CCNP Routing and Switching

The Cisco Certified Network Professional is a professional-level Cisco certification. Certification holders possess the skills necessary to work with both local and wide-area enterprise networks, including planning, implementation, verification, and troubleshooting.

CCNP professionals also possess knowledge required to work with network specialists from other disciplines such as wireless, video, voice, and security.

CCNP professionals perform functions on complex enterprise network systems including installing, configuring, and implementing internal and external routing solutions, as well as managing connections to LANs and WANs from Cisco ISR routers. In addition, CCNP professionals use Cisco's Campus Enterprise Architecture to create switching solutions, including VLAN, WLAN, voice, and video. CCNP credential holders also maintain routed and switched networks on enterprise systems.

Skills You Will Gain

- Implement BGP for enterprise ISP connectivity
- IOS Routing Features
- Master and implement multicast forwarding
- Understand gateway redundancy technologies
- Multi-area OSPF operations
- Security features in a switched network



Job Prospects

- Network Engineer/Sr. Network Engineer
- Network Engineer, IT
- Systems Engineer/Sr. Systems Engineer (Computer Networking/IT)
- Information Technology IT Manager
- Network Technician
- Support Engineer



Prerequisite

- Cisco Certified Network Associate (CCNA) or any Cisco Certified Internetwork Expert (CCIE) certification



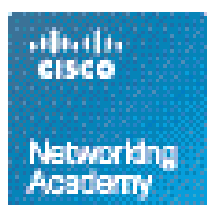
Progression

- Cisco Certified Internetwork Expert (CCIE)



Exam Track

- 300-101 (ROUTE) Implementing Cisco IP Routing
- 300-115 (SWITCH) Implementing Cisco IP Switched Networks
- 300-135 (TSHOOT) Troubleshooting and Maintaining Cisco IP Networks



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Juniper

Junos Routing Essentials (JRE)

Prepare to operate Juniper based networks and gain the foundation required to work with the Junos operating system (OS) and to configure and route a Junos device-based network.

After a brief overview of the Junos device families, you'll learn about the key architectural components of the software. Through demonstrations and hands-on labs, you will gain experience in configuring and monitoring the Junos OS and monitoring basic device operations. You will dive into routing and configuration, beginning with an overview of general routing concepts and covering routing policy and firewall filters and Class of Service (CoS). You'll also get hands-on experience configuring and monitoring the Junos OS and monitoring basic device operations.

Exam Code:

No Exam

Price:

£750.00

Duration:

2-4 Weeks

Skills You Will Gain

- Explain basic routing operations and concepts
- View and describe routing and forwarding tables
- Configure and monitor static routing
- Configure and monitor OSPF
- Describe the framework for routing policy
- Explain the evaluation of routing policy and firewall filters
- Identify instances where you might use routing policy
- Write and apply a routing policy
- Identify instances where you might use firewall filters
- Write and apply a firewall filter
- Describe the operation and configuration for unicast reverse path forwarding (RPF)



Job Prospects

- Network Engineer
- Juniper Network Engineer



Prerequisite

- Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite, and also attend the Introduction to the Junos Operating System (IJOS) course prior to attending this class.



Progression

- Juniper Networks Certified Internet Associate - (JNCIA)
- Juniper Networks Certified Internet Specialist - (JNCIS)
- Juniper Networks Certified Internet Professional - (JNCIP)



Exam Track

- No Exam



Exam Code:

No Exam

Price:

£750.00

Duration:

2-4 Weeks

Juniper

Introduction to Junos OS (IJOS)

This course provides students with the foundation knowledge required to work with the Junos operating system and to configure Junos devices.

The course provides a brief overview of the Junos device families and discusses the key architectural components of the software. Key topics include user interface options with a heavy focus on the command-line interface (CLI), configuration tasks typically associated with the initial setup of devices, interface configuration basics with configuration examples, secondary system configuration, and the basics of operational monitoring and maintenance of Junos devices.

Skills You Will Gain

- Describe the basic design architecture of the Junos OS.
- Identify and provide a brief overview of Junos devices.
- Navigate within the Junos CLI.
- Perform tasks within the CLI operational and configuration modes.
- Restore a Junos device to its factory-default state.
- Perform initial configuration tasks; Configure and monitor network interfaces.
- Describe user configuration and authentication options.
- Perform secondary configuration tasks for features and services such as syslog and tracing, NTP, configuration archival, and SNMP.
- Monitor basic operation for the JunosOS and devices.
- Identify and use network utilities.
- Upgrade the Junos OS.
- Perform file system maintenance and password recovery on a Junos device.
- Navigate within the Junos J-Web interface.



Job Prospects

- Network Infrastructure Specialist
- Juniper Engineer
- Network Engineer
- Progression
- JNCIA-Junos: Juniper Networks Certified Internet Associate Junos
- Various Vendor Specialisms (Cisco / Juniper)



Prerequisite

- Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite.



Progression

- Juniper Networks Certified Internet Associate - (JNCIA)
- Juniper Networks Certified Internet Specialist - (JNCIS)
- Juniper Networks Certified Internet Professional - (JNCIP)



Exam Track

- No Exam

Juniper JNCIA-Junos (Combined IJOS & JRE)

This two-day bundle of courses provide students with the foundational prerequisite knowledge required to achieve the JNCIA-Junos certification and includes full content from Introduction to Junos (IJOS) and Junos Routing Essentials (JRE).

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos OS and monitoring basic device operations. This course uses Juniper Networks SRX Series Services Gateways for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos OS.

Exam Code:

JNO-102

Price:

£750.00

Duration:

2-4 Weeks

Skills You Will Gain

- Networking Fundamentals
- Junos OS Fundamentals
- User Interface Options
- Junos Configuration Basics
- Operational Monitoring and Maintenance
- Routing Fundamentals
- Routing Policy and Firewall Filters
- Class of Service



Job Prospects

- Network Infrastructure Specialist
- Network Engineer
- Juniper Engineer



Prerequisite

- Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite. Students should also attend the Introduction to the Junos Operating System (IJOS) course prior to attending this class.



Progression

- Juniper Networks Certified Internet Specialist - (JNCIS)
- Juniper Networks Certified Internet Professional - (JNCIP)



Exam Track

- JNO-102 Juniper Networks Certified Associate Junos (JNCIA-Junos)







NETWORK SECURITY

Our specialist network security qualifications are designed to equip you with practical and theoretical knowledge and skills relating within specific vendor certifications such as implementing and maintaining Cisco ASA security appliances, running of Checkpoint security solutions (VPN-1 NGX), enterprise security and Cyberoam devices and identifying weaknesses and vulnerabilities in target systems through lawful and ethical hacking methodologies.

“ I have achieved
certifications that have
international recognition.
The staff mentorship
gave me the courage and
confidence to challenge
myself to achieve

Anthony Buttler

- 11** Cyberoam CCNSP
- 12** CheckPoint CCSA
- 13** Cisco ASA Security v2.1
- 14** EC Ethical Hacker V9



Cyberoam CCNSP

The CCNSP Certification Course prepares individuals to recognize insider threats

and user-targeted external threats while giving them expertise in networking and security fundamentals in addition to the deployment and configuration of Cyberoam identity-based UTM. The course is comprehensive, yet easy to follow, with real world scenarios, delivering practical value to aspirant security professionals.

Exam Code:

Paper Based

Price:

£950.20

Duration:

3-6 Weeks

Skills You Will Gain

- Firewall to UTM, Insider Threats, Identity-Based UTM
- Centralised Security Management
- Firewall Policy Configuration & Management
- Identity-Based Reporting and Access Policies & Significance
- User Authentication, Routing Concepts, Troubleshooting & Diagnostics
- Feature Configuration - Content & Application Filtering, Antivirus & Antispam, IPS, VPN, Bandwidth & Multiple Link Management



Job Prospects

- Network Professional
- IT Security Manager



Prerequisite

- OS Knowledge basics; Networking basics; Protocols (HTTP, HTTPS, IMAP, POP3, SMTP, TCP/IP stack); Security Fundamentals; Operational Knowledge



Progression

- CCNSE (Expert)



Exam Track

- Paper based: CCNSP certification requires candidates to undergo the compulsory CCNSP or CCNSP-FT training after which they would take the exam. The exam consists of 30 dynamic questions from the question bank. The duration of the exam is 1 hour. A passing score of at least 70% is needed to attain the CCNSP certification.



Exam Code:
156-215.77

Price:
£1,050.00

Duration:
3-6 Weeks

CheckPoint CCSA NGX R77

CCSA (NGX R77.x) is a foundation level certification that validates candidate's ability to configure and manage fundamental implementations of Check Point enterprise level Internet security solution VPN-1/FW1 NGX.

Each student is provided with 3 systems, this includes a client, Policy Server, Enforcement Module and Active Directory/Radius integration. All training is hands-on and highly interactive.

Skills You Will Gain

- Configure a Check Point Firewall-1 NGX Version Firewall
- Manage a Check Point Firewall-1 NGX Version Firewall
- Operate a Check Point Firewall-1 NGX Version Firewall
- Operate a Check Point Windows Platform



Job Prospects

- Senior Security Engineer
- Senior Network Engineer
- Enterprise Network Engineer
- Network Security Advisor



Prerequisite

- Candidates are to have an in-depth understanding of internetworking, server systems and support of either Windows 2003/2008/2012, Sun, Unix, Linux or Nokia.
- Good solid understanding of IP addressing, routing and internetwork needs is essential.



Progression

- Check Point CCSP



Exam Track

- Exam 156-215.77 (Check Point Certified Security Administrator NGX R77.x)

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Cisco

ASA Security v2.1

Cisco Firewall Security Specialist certification recognizes security professionals with the skills to design, implement, and maintain Cisco security appliance solutions using the Cisco ASA adaptive security appliance and zone-based firewall solutions.

The Cisco Firewall Security Specialist certification validates skills and knowledge in implementing perimeter security solutions using Cisco security appliances.

The Cisco ASA adaptive security appliance is widely deployed and in use at leading enterprises and service providers worldwide. The Cisco ASA Specialist is recognized as the benchmark security product certification for engineers, consultants, and architects who configure advanced Cisco security appliances and VPN solutions, including advanced protocol handling, remote access VPNs, Secure Sockets Layer VPNs, site-to-site VPNs, high-availability VPNs, and failover.

Exam Code:

**500-206
FIREWALL**

Price:

£1,299.20

Duration:

3 - 6 Weeks

After attending this course you should be able to:

- Describe the Cisco ASA5500X Series Next Generation Firewalls, ASAv, ASA 5506-X, 5508-X, 5516-X and ASASM plus implement new ASA 9.4.1 features
- Implement Cisco ASA Identity Firewall policies
- Install and set up the Cisco FirePOWER Services Module (SFR)
- Implement Cisco ASA Cloud Web Security
- Implement Cisco ASA Clustering
- Describe Cisco ASA Security Group Firewall and Change of Authorisation Support



Job Prospects

- Network Engineer
- Network Architect
- Cisco Security Consultant



Prerequisite

- Implementing Core Cisco ASA Security (SASAC) v1.0 or equivalent knowledge of the Cisco ASA



Progression

- Checkpoint
- CCNA
- CCNP (Security)



Exam Track

- 500-206 FIREWALL



Exam Code:

312 - 50

Price:

£ 1,350.00

Duration:

8 Days

EC Council Certified Ethical Hacker V9

Prepare for the CEH certification while learning the latest ethical hacking techniques.

If you're concerned about the integrity of your network's infrastructure, this course will teach you the ethical hacking tools and techniques needed to enhance your network's defenses.

You'll begin by learning how perimeter defenses work. By scanning and attacking your own network (no real networks will be harmed), you'll also learn how intruders operate and the steps to secure a system.

In the interactive, lab-filled environment of this ethical hacking course, you will gain in-depth knowledge and practical experience with current, essential security systems. You will explore common ethical hacking topics, such as intrusion detection, policy creation, social engineering, DDoS attacks, buffer overflows, and virus creation.

What You'll Learn

- Footprinting
- Network scanning
- Enumeration
- Packet sniffing
- Social Engineering
- DoS/DDoS
- Session hijacking
- Webserver and web application attacks and countermeasures
- SQL injection attacks
- Wireless encryption
- Cloud computing threats
- Cryptography ciphers
- Penetration testing



Job Prospects

- Cyber Security Analyst
- IT Security Officer
- Cyber Security - Ethical Hackers & Penetration Testers
- Security Analyst - CEH/Network/Security/Ethical hacking



Prerequisite

- At least two years of IT security experience
- A strong working knowledge of TCP/IP
- Security+ Prep Course is highly recommended
- Security+ Prep Course



Progression

- Computer Hacking Forensic Investigator (CHFI) v8



Exam Track

- 312-50 Certified Ethical Hacker V9



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CLOUD AND STORAGE

Virtualisation and cloud solutions are encompassed in qualifications from Microsoft with their Private Cloud 2012 and Hyper-V solutions as well as our newly introduced Microsoft Azure Infrastructure Solutions platform. Alongside these, other platforms include reputable Citrix and the VMware global standard with the EMC qualification focusing on skills and knowledge covering information storage, security, backup and integrity.

“ Now I am working as IT Support Engineer at Wolseley - UK's largest supplier of plumbing and heating, and enjoying travelling for work around the world. Without 5E's help and support I wouldn't have been able to get here

Luleka Mgaga

- 11** MCTS Hyper-V
- 12** EMC V2
- 13** Citrix CCP
- 14** Citrix CCA
- 15** VMware V6
- 16** VMware VCP-DCV
- 17** Microsoft Azure
- 18** Private Cloud 2012
- 21** Amazon Web Services



CITRIX
IT Academy

Microsoft
CERTIFIED
Solutions Expert
Private Cloud



vmware IT ACADEMY

Microsoft Hyper-V 2012

This course is intended for IT professionals who are responsible for designing, implementing, managing, and maintaining a virtualization infrastructure or are interested in learning about current Microsoft Virtualization technologies.

The secondary audience for this course includes IT decision makers who will determine which virtualization product to implement in their data centers.

The Microsoft certification path, exam, and course will prove your ability to deploy and manage a Microsoft Server Virtualization infrastructure in an enterprise environment. You also find out how to configure, manage, and maintain Windows Server 2012 R2 Hyper-V and System Center 2012 R2 Virtual Machine Manager, including networking and storage services. Plus, you learn how to configure key Microsoft Server virtualization features, such as Generation 2 Virtual Machines, Replication Extension, Online Export, Cross-Version Live Migration, Online VHDX Resizing, and Live Migration Performance tuning, in addition to Dynamic Virtual Switch Load Balancing and virtual Receive Side Scaling (vRSS).

Exam Code:

74-409

Price:

£1,171.20

Duration:

**2 Months /
8 Weeks**

Skills You Will Gain

- Configuring and Optimizing Business Unit Clouds
- Deploying and Monitoring Cloud Services
- Configuring Application Performance Monitoring
- Operating/Extending Service Management in the Private Cloud
- Automatic Incident Creation, Remediation, and Change Requests
- Problem Management, Protection & Recovery in Private Cloud
- Automating Self-Service Provisioning
- Configure Compliance, SLAs, Dashboard, Widgets in Private Cloud
- Planning, Extending & Maintaining the Private Cloud Infrastructure
- Configure & Deploy (System Center 2012 Virtual Machine Manager)
- Configuring Application Delivery
- Creating the Private Cloud Building Blocks
- Deploying and Accessing a Private Cloud
- Monitoring the Private Cloud Infrastructure
- Implementing Service Management for the Private Cloud
- Protecting the Private Cloud Infrastructure
- Automating and Standardizing the Private Cloud
- Configuring the Cloud Services Process Pack



Job Prospects

- Senior Network Administrator - Information Technology
- IT Infrastructure and Support Manager
- Infrastructure Engineer
- System Administrator
- Project Engineer



Prerequisite

- An understanding of TCP/IP and networking concepts
- An understanding of different storage technologies and concepts
- The ability to work in a team/virtual team
- An understanding of Windows PowerShell®



Progression

- MS private cloud



Exam Track

- Exam 70-409: Server Virtualization with Windows Server Hyper-V and System Center



Exam Code:

E10-002

Price:

£1,395.00

Duration:

8 Weeks

EMC

Install Configure Manage v2

Information Storage and Management (ISM) is the only course of its kind to fill the knowledge gap in understanding varied components of modern information storage infrastructure.

It provides a strong understanding of information storage technologies which prepares you to learn advanced concepts, technologies and also enables you to make more informed decisions in an increasingly complex IT environment. You will learn about the architectures, features, and benefits of Intelligent Storage systems; storage networking technologies such as FC-SAN, NAS, and IP-SAN; long-term archiving solution – CAS; business continuity solutions such as backup and replication, the increasingly critical area of information security, and the emerging field of storage virtualisation including storage resource management. The technologies described in the course are illustrated and reinforced with EMC product examples. Realistic case studies enable the participant to design the most appropriate solution for given sets of criteria.

Skills You Will Gain

- Platform technologies - cloud, big data, social, and mobile
- Evaluate intelligent storage systems and their deployment
- Business continuity and archiving solutions
- Security threats and controls in a storage infrastructure
- Key processes for managing a storage infrastructure



Job Prospects

- Storage Area Network (SAN) Engineer
- Storage Administrator
- Senior Storage Systems Engineer



Prerequisite

- Broad L3+ knowledgebase/ skills in datacentre disciplines: storage, network and server virtualization



Progression

- Microsoft
- Cisco
- Cloud & Storage



Exam Track

- E10-002 EMC - Install Configure Manage v2



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Citrix

Certified Professional (CCP) 7.8

In use by over 100 million users worldwide, Citrix is the de facto standard in application / desktop virtualisation and delivers on the promise of proven application compatibility.

Virtualising lets you manage a single instance of each application / desktop / server in a hub within the data centre. Citrix Xen Desktop 7.8 and XenApp 7.8 for Windows Server 2012 provides you with the essential skills to install, configure and administer a Citrix Virtualised environment.

The Citrix Certified Professional - Virtualization (CCP-V) credential validates the skills that experienced IT solution builders, such as engineers and consultants, need to install, configure and roll out common XenDesktop 7.8 solutions. Note: To become a CCP-V, you must attain the CCA-V certification.

Exam Code:

A20

Price:

£1,615.00

Duration:

8 Weeks

Skills You Will Gain

- Configure an environment that includes components: XenServer, XenDesktop, Citrix License Server, MCS, PVS, Personal vDisk, StoreFront, NetScaler and Citrix Receiver.
- Build a XenApp/ Desktop 7.6 environment from scratch
- Test the implementation to ensure that all components work as expected and that
- Test both internal and external end users can access XenDesktop resources successfully.



Job Prospects

- Citrix Support Engineer
- Citrix Deployment Engineer
- IT professionals
- Desktop administrators
- Application administrators



Prerequisite

- Citrix Certified Professional – CCP-V



Progression

- Citrix Certified Expert – CCE-V



Exam Track

- A20 Citrix Certified Professional (CCA) 7.8



Exam Code:

A26

Price:

£1,325.00

Duration:

8 Weeks

Citrix Certified Administration (CCA) 7.8

In use by over 100 million users worldwide, XenApp is the de facto standard in application virtualisation and delivers on the promise of proven application compatibility.

Virtualising lets you manage a single instance of each application / desktop / server in a hub within the data centre.

CCA Citrix Presentation Server 4.5 and XenApp 5.0 for Windows Server 2003 provides you with the essential skills to install, configure and administer a Citrix Virtualised environment.

This is an excellent certification from the pioneer in application virtualisation to show competency with Citrix products.

Skills You Will Gain

- Manage, monitor, support and troubleshoot a XenDesktop 7.6 solution
- Growing the implementation to accommodate changes in the environment
- Adding new applications, new users, new desktops, and new policies
- Troubleshooting common issues.



Job Prospects

- Citrix Support Administrator
- IT professionals
- Desktop administrators
- Application administrators



Prerequisite

- Systems administration experience on Windows or Linux



Progression

- Citrix Certified Expert – CCP-V



Exam Track

- A26 Citrix Certified Administration (CCA) 7.8

VMware vSphere: Design and Deploy (V6)

This extended-hours training course equips you with the knowledge, skills, and abilities to design and deploy a VMware vSphere® 6.0 virtual infrastructure.

You follow a proven approach to design and deploy a virtualization solution that is available, scalable, manageable, and secure, and that uses VMware best practices.

This course discusses the benefits and risks of available design alternatives and provides information to support making sound design decisions.

In this course, you practice your design skills by working with peers on a design project. You also deploy components of a completed vSphere design.

Exam Code:

**3V0-622,
3V0-623**

Price:

£2,502.80

Duration:

8 Weeks

Skills You Will Gain

- Assess the business and application requirements of the current environment
- Understand and apply a framework to a design
- Analyze design choices and best-practice recommendations
- Design and deploy the core management infrastructure for an enterprise
- Design and deploy the virtual data center for an enterprise
- Design and deploy the compute infrastructure for an enterprise
- Design and deploy the storage and networking infrastructures for an enterprise
- Design and deploy virtual machines to run applications in a vSphere infrastructure
- Design and deploy security, management, and recoverability features for an enterprise



Job Prospects

- VMware Infrastructure Consultant
- Cloud Specialist
- Project Manager



Prerequisite

- VCP6-DCV Certified



Progression

- VCDX – VMware Certified Design Expert



Exam Track

- 3V0-622, 3V0-623 VMware vSphere: Design and Deploy (V6)



Exam Code:
2V0-622

Price:
£1,673.60

Duration:
8 Weeks

VMWare Install, Config Manage 6.5 (VCP6-DCV)

VMware vSphere: Install, Configure, Manage features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 6, which includes VMware ESXi™ 6.5 and VMware vCenter Server™ 6.5.

This course prepares you to administer a vSphere infrastructure for an organization of any size and forms the foundation for most other VMware technologies in the software-defined data center.

Skills You Will Gain

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Job Prospects

- VMware Engineer
- VMware Administrator
- Cloud Engineer



Prerequisite

- Systems administration: experience on Windows or Linux
- Understanding of Networks & Storage



Progression

- VCAP Datacentre Admin
- VCAP Datacentre Design



Exam Track

- 2V0-622 VMWare Install, Config Manage 6.5 (VCP6-DCV)

Implementing Microsoft Azure Infrastructure Solutions vC

This course is intended for IT professionals who are familiar with managing on-premises IT deployments that include AD DS, virtualization technologies, and applications. The students typically work for organizations that are planning to locate some or all of their infrastructure services on Azure.

This course also is intended for IT professionals who want to take the Microsoft Certification exam, 70-533, Implementing Azure Infrastructure Solutions.

Exam Code:

**3V0-622,
3V0-623**

Price:

£2,502.80

Duration:

8 Weeks

Skills You Will Gain

- Describe Azure architecture components, including infrastructure, tools, and portals.
- Implement and manage virtual networking within Azure and connect to on-premises environments.
- Plan and create Azure virtual machines.
- Configure, manage, and monitor Azure virtual machines to optimize availability and reliability.
- Deploy and configure web apps and mobile apps.
- Implement, manage, backup, and monitor storage solutions.
- Plan and implement data services based on SQL Database to support applications.
- Deploy, configure, monitor, and diagnose cloud services.
- Create and manage Azure AD tenants, and configure application integration with Azure AD.
- Integrate on-premises Windows AD with Azure AD.
- Automate operations in Azure management by using automation.



Job Prospects

- Cyber Security Analyst
- IT Security Officer
- Cyber Security - Ethical Hackers & Penetration Testers
- Security Analyst - CEH/Network/Security/Ethical hacking
- Completed the Microsoft Certified Systems Administrator (MCSA) certification in Windows Server 2012;
- Understanding of on-premises virtualization technologies, including: virtual machines, virtual networking, and virtual hard disks (VHDs);
- Understanding of network configuration, including: TCP/IP, Domain Name System (DNS), virtual



Progression

- Computer Hacking Forensic Investigator (CHFI) v8



Prerequisite

- private networks (VPNs), firewalls, and encryption technologies;
- Understanding of websites, including: how to create, configure, monitor and deploy a website on Internet Information Services (IIS);
- Understanding of Active Directory concepts, including: domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP);
- Understanding of database concepts, including: tables, queries, Structured Query Language (SQL), and database schemas;
- Understanding of resilience and disaster recovery, including backup and restore operations;



Exam Code:
**410, 411, 412,
246, 247**

Price:
£2,778.00

Duration:
6 Months

Microsoft Private Cloud 2012

Prove your expertise in managing and implementing Microsoft private cloud computing technologies.

With Windows Server and System Center, you will build your Microsoft private cloud solution to optimise IT service delivery and gain the automation and flexibility you need for your IT infrastructure, now and in the future.

Earning an MCSE Private Cloud certification will qualify you for jobs such as server administrator, systems programmer and network manager.

Skills You Will Gain

- Produce a high-level design that accounts for requirements for cloud environments.
- Configure and deploy the cloud fabric.
- Build the core components necessary for delivering services on the fabric incl APP-V
- Allocate resources to a cloud and grant access to a cloud.
- Understand how to monitor clouds using Operations Manager.



Job Prospects

- Information and Network Security Analyst
- Systems Architect and Design
- Systems Engineer
- Systems Programmer
- Network Manager
- IT and Windows Server Administrator



Prerequisite

- Windows Server 2012 experience or equivalent
- Active Directory Domain Services (AD DS) knowledge
- Networking and storage experience



Progression

- Microsoft Windows Azure
- VMware VCP
- Amazon AWS



Exam Track

- Exam 410: Installing and Configuring Windows Server 2012
- Exam 411: Administering Windows Server 2012
- Exam 412: Configuring Advanced Windows Server 2012 Services
- Exam 246: Monitoring and Operating a Private Cloud with System Center 2012
- Exam 247: Configuring and Deploying a Private Cloud with System Center 2012

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Solutions Expert

Private Cloud

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Amazon Web Services

Cloud Computing Architecture

Cloud Computing Architecture is an AWS Academy curriculum designed to help students develop technical expertise in cloud computing and prepare them for the AWS Solutions Architect - Associate certification exam.

The curriculum is taught through e-learning, instructor-led classes, hands-on labs, and project work. The student kit includes course manuals, access to labs, a practice exam, and a discount voucher for the certification exam.

Exam Code:
**AWS Certified
Solutions
Architect –
Associate**

Price:
£1,575.00

Duration:
8 Days

What You'll Learn

- Identify the value and benefits of cloud computing and AWS
- Understand methods and tools to maintain security and protect data
- Explain the financial advantages of the AWS cloud
- Navigate the AWS Management Console
- Differentiate between AWS storage options
- Understand AWS compute and networking options
- Describe and use AWS database options
- Identify deployment and management options
- Make decisions based on recommended architectural principles and best practices
- Create a cloud migration roadmap and plan
- Use AWS to make infrastructure scalable
- Create a business continuity plan and achieve high availability
- Understand the AWS Certified Solutions Architect - Associate exam structure and questions



Job Prospects

- Solutions Architect
- Cloud Enablement Technology Advisory
- Cloud Technology Consultant



Prerequisite

- Cloud Computing Architecture requires a strong foundation in multiple computing, software development, and IT concepts and skills.



Progression

- AWS Courses
- Advanced Architecting on AWS v1.5
- DevOps Engineering on AWS
- Security Operations on AWS v1.5



Exam Track

- ---





MANAGEMENT

Virtualisation and cloud solutions are encompassed in qualifications from Microsoft with their Private Cloud 2012 and Hyper-V solutions as well as our newly introduced Microsoft Azure Infrastructure Solutions platform. Alongside these, other platforms include reputable Citrix and the VMware global standard with the EMC qualification focusing on skills and knowledge covering information storage, security, backup and integrity.

“I wanted to retrain as a qualified computer technician. 5E's trainers are extra supportive and knowledgeable and I managed to progress from a Microsoft MCITP to Cisco CCNA and CCNP qualifications. I recommend them thoroughly.”

Jeremy Murray

44 Prince2

45 ITIL



Prince2 Foundation

Improve your project management skills & employment prospects by getting your PRINCE2 certificate.

There are two PRINCE2 qualifications:

- PRINCE2 Foundation
- PRINCE2 Practitioner

The PRINCE2 Foundation examination is aiming to measure whether a candidate would be able to act as an informed member of a project management team using the PRINCE2 methodology within a project environment supporting PRINCE2.

To this end, they need to show they understand the principles and terminology of the method, specifically, candidates must be able to:

- Describe the purpose and major content of all roles, the seven principles, the seven themes and the seven processes
- State which management products are input to, and output from the seven processes
- State the main purpose, and key contents, of the major management products
- State the relationships between processes, deliverables, roles and the management dimensions of a project.

Exam Code:

PR2F

Price:

£768.00

Duration:

5 Weeks

Skills You Will Gain

- Understand the purpose and major content of all roles, the seven principles, the seven themes and the seven processes.
- Understand how management products input to, and output from the seven processes.
- Purpose and key contents, of the major management products.
- Relationships between processes, deliverables, roles and the management dimensions of a project.



Job Prospects

- Project Manager
- IT / Consulting Project Manager



Prerequisite

- None



Progression

- Prince2 Practitioner



Exam Track

- 00-01 Prince2 Foundation Exam



Exam Code:
**ITIL
Foundation**

Price:
£768.00

Duration:
5 Weeks

ITIL Foundation

This course provides IT managers, practitioners, support staff and staff interfacing with the information systems function with a practical understanding of the key concepts, principles, processes and functions that enables successful IT service management provision. It also prepares delegates for the ITIL Foundation Certificate Examination. The course is based on the ITIL best practice service lifecycle approach.

ITIL Foundation is suitable for individuals who require a basic understanding of the ITIL framework and how it may be used to enhance the quality of IT service management within an organization. The ITIL Foundation Certification also applies to IT professionals who work within an organization that has adopted ITIL and so need to be aware of and contribute to the overall service improvement programme.

Skills You Will Gain

- Understanding of the ITIL framework
- How ITIL can be used to enhance IT service management within an organization
- Understand generic concept, processes, roles, functions



Job Prospects

- IT Service Desk Analyst
- Service Manager
- Incident Manager



Prerequisite

- None



Progression

- ITIL Practitioner



Exam Track

- 00-02
ITIL Foundation Exam

CREATING A BRIGHTER FUTURE THROUGH TRAINING AND LEARNING

Microsoft® IT Academy
Program Member

JUNIPER
NETWORKS
EDUCATION SERVICES
ACADEMIC ALLIANCE

CITRIX®
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