



NETWORK Security

As the internet evolves and computer networks become bigger and bigger, network security has become one of the most important factors for companies to consider. By protecting critical applications from disruption, network security ensures that companies can stay on task without facing server outages, email downtime or data loss. Network security has become of paramount importance with the expansion of employees working remotely. Effective network security ensures that organisations can offer seamless remote access – without disruptions that can damage productivity.

Certified Training Programme in Network Security

This course gives the learner a solid foundation-level security skill set and knowledge. Students will gain an introduction to core security technologies as well as how to develop security policies and mitigate risks. Specifically the student will secure routers and switches and their associated networks. Skills learned will include installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices. Furthermore, they will gain a competency in the technologies that underpin the deployment of a secure network.

This online and practical training programme will enable participants to identify the threats against network infrastructures and build defensible networks that minimise the impact of attacks, as well as understand how to recognise and respond to attacks.

INDICATIVE CONTENT

Overview

Modern Security Threats, Viruses, Worms, and Trojan Horses, Penetration Testing, Attack Methodologies, malware and social engineering attacks, Securing Network Devices, Authentication, Authorization and Accounting

Monitoring

Implementing Firewall Technologies, Implementing Intrusion Prevention, Securing the Local Area Network, Layer 2 Security Considerations

Securing Traffic

Wireless Security Considerations, VoIP Security Solutions, SAN Security Solutions, Cryptographic Systems, Public Key Cryptography

Remote Access

Implementing Virtual Private Networks, Implementing Site-to-Site IPsec VPNs, Implementing a Remote Access VPN, Implementing SSL VPNs.

Management and Policies

Managing a Secure Network, Self-Defending Network, Network Security Testing, Developing a Comprehensive Security Policy.

How You Will Learn?

The course is delivered online part-time over 12 weeks. Lectures are delivered one evening per week (streamed online live from ITB) and are recorded for playback. During the course you will be assessed by examining a case study, designing and implementing a solution on routers and switches (remotely), writing a review of technical papers and doing a multiple choice test. There is no final examination. Each online lecture will last 3 hours and you will need to allocate about another 3 hours each week for self-directed learning and project work though this will vary per student.

What Awards Will You Receive?

The course is worth 10 ECTS credits at Level 7 on the NFQ. On successful completion you will be awarded a **Certificate in Network Security**. Completion of the course entitles the participant to 250 Continuing Professional Development (CPD) points with the Irish Computer Society. This Network Security course also prepares you for the **CCNA (Cisco Certified Network Associate) Security Certification (the exam costs for this are not included)**.

It also completes part of the requirements to be awarded the BSc in Cyber Security from IT Blanchardstown under the Cybersecurity Skills Initiative. The BSc Degree course is mapped to the EU e-Competence Framework and will allow you on successful completion of the whole degree course, to be designated as a Certified IT Security Specialist.

What's in it for Companies?

These accreditations ensure employees are qualified to properly configure servers and secure network data. Coupled with the proper amount of experience, certified employees can serve as a crucial resource towards helping your company defend against a data breach.

What are the Entry Requirements?

Candidates should have at least a Level 6 (Higher Certificate) qualification or alternatively may apply under a non-standard entry process which recognises their prior experiential learning and experience.

What does it cost?

The cost after applying the grant from Skillnet Ireland is €400.

How do I Apply?

You must complete the online application form by clicking this link <https://goo.gl/forms/8r6j4E1EIZAZzONw1>

Further Information

For further information and to enquire about payment options please email csi@ictskillnet.ie

