

BTEC EXTENDED DIPLOMA, LEVEL 3

# Digital Infrastructure and Networking

**START DATE**

September 2024

**DURATION**

2 years

**LEVEL**

Level 3

**STUDY MODE**

Full-time

**AWARDING BODY**

Pearson BTEC

The digital infrastructure and networking industry in the UK is one of the fastest-growing industries in the country. The demand for digital infrastructure and networking professionals is high and is expected to continue to grow in the future. This is due to the increasing use of technology in all aspects of our lives, from business to entertainment to healthcare.

Digital infrastructure refers to the physical components that make up the internet, such as cables, routers, and servers. Networking refers to the way that these components are connected together. The digital infrastructure and networking industry is responsible for designing, building, and maintaining the digital infrastructure that powers our world.

There are many different types of jobs available in the digital infrastructure and networking industry. Some of the most common jobs include:

- Network engineer
- Cloud engineer
- Data centre technician
- Security analyst
- Systems administrator

The salaries for digital infrastructure and networking professionals are typically very good. According to the National Careers Service, the average salary for a network engineer in the UK is £45,000 per year. The average salary for a cloud engineer is £50,000 per year.

The digital infrastructure and networking industry is a great place to work. It is a fast-paced, challenging, and rewarding industry. There are many opportunities for career growth and advancement.

## What will I study?

The course will teach you the skills you need to succeed in this rapidly growing field. You will learn about the principles of digital infrastructure and networking, as well as the practical skills needed to design, install, and maintain digital networks. You will also have the opportunity to specialize in one or more areas of digital infrastructure and networking, such as cloud computing, data center operations, or network security.

Here are some specific topics you will learn about on a level 3 digital infrastructure and networking course using BTEC Extended Diploma ICT modules:

- Digital infrastructure: You will learn about the different components of digital infrastructure, such as servers, routers, and switches. You will also learn about the principles of networking, such as routing, switching, and addressing.
- Network security: You will learn about the different threats to network security, such as malware, phishing, and social engineering. You will also learn about the different security measures that can be taken to protect networks, such as firewalls, intrusion detection systems, and data encryption.
- Cloud computing: You will learn about the different cloud computing platforms, such as Amazon Web Services (AWS),

Microsoft Azure, and Google Cloud Platform (GCP). You will also learn about the benefits and challenges of cloud computing.

- Data center operations: You will learn about the different aspects of data center operations, such as facility design, cooling, and power. You will also learn about the importance of data center security.

By the end of the course, you will be able to:

- Design, install, and maintain digital networks
- Apply the principles of network security
- Use cloud computing platforms
- Operate data centers

## What can I do after this course?

On completion with the appropriate pass plus English and maths grades, you can progress through the levels, you can then progress to Higher Education to study for an HNC/D, Foundation Degree or BA/BSc degree in a range of disciplines at another centre.

## Entry requirements

5 GCSEs at grade 9-4, including English or maths

OR

Relevant Level 2 at Merit grade, plus English and maths at a minimum of Level 2

## Assessment

Written Assignments and practical observations/tasks, external (exams), internal (assignments) and synoptic (projects) and some units are externally assessed via online exams.

Visit this course on our website: <https://www.selby.ac.uk/courses/digital-infrastructure-and-networking-btec-extended-diploma-level-3>

For further information please contact the college: <https://www.selby.ac.uk/contact>

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