



Cloud Computing - Level 4 Higher National Certificate

This course is delivered one day per week on Fridays from 9.30am - 3.00pm.

The phrase 'it's in the cloud' has become ubiquitous in computing over the last few years and has revolutionised the way we use computer services. The ability to store both data and services in a remote location on the internet has meant that availability has widened considerably as virtual services have proliferated. The growth in cloud adoption presents challenges for companies to source cloud expertise to support their business, particularly small- and medium-sized enterprises with limited resources, which means that people skilled in cloud technologies are in high demand.

The ability to access applications, storage, printing, server functions and data from almost anywhere on almost any type of device has become the expectation rather than the exception. The ability to scale computing resources in direct relation to demand has reduced the need to purchase and maintain central computing resources significantly.

This unit is designed to develop an understanding of the fundamental concepts of cloud computing and cloud deployment models, and the need for cloud computing. You will develop an appreciation of the issues associated with managing cloud service architecture and develop critical awareness of the ramifications of cloud computing-based projects.

On successful completion of this unit, you will understand the concept, architecture, and services of cloud computing. As a result, you will develop skills such as communication literacy, critical thinking, analysis, reasoning, and interpretation, which are crucial for gaining employment and developing academic competence.

This unit is designed to be studied as the first unit in the Cloud Computing qualifications as it explains the fundamentals of cloud computing and its infrastructure.

WHAT WILL I STUDY?

Topics included in the unit are:

Start Date: 27 January 2023

Duration: 15 Weeks

Attendance: Part Time

Location: Tottenham Centre

- The paradigms of networking
- Fundamentals of cloud computing
- Cloud computing architecture and frameworks
- Deployment models
- Service models
- Security
- Cloud specific technology
- Review of Cloud Service Providers (CSPs)

On successful completion of this unit, you will understand the concept, architecture, and services of cloud computing. As a result, you will develop skills such as communication literacy, critical thinking, analysis, reasoning, and interpretation, which are crucial for gaining employment and developing academic competence.

By the end of this unit, you will be able to:

- Examine the fundamentals of cloud computing in relation to areas of application, architecture, and platform
- Design a deployment model to be hosted in the cloud for a given scenario
- Explain different Cloud Service Providers' (CSPs) approaches to providing a cloud architecture framework for business use
- Assess the technical challenges and risks inherent in moving IT systems to the cloud.

WHAT WILL I NEED?

To enrol on level 4 Cloud Computing, you must be aged 18 or over. You will need 5 GCSEs at grade 4 or the equivalent and a level 3 qualification in Computing.

All applicants must have an assessment and interview to confirm that the course is suitable for them.

HOW WILL I BE ASSESSED?

The unit will be assessed through a combination of practical assessment mini project and briefs.

WHAT CAN I DO AFTER?

Progression to higher level courses/degree or employment

Start Date: 27 January 2023

Duration: 15 Weeks

Attendance: Part Time

Location: Tottenham Centre