

Cloud Computing Fundamentals

Duration: 12 Weeks

Level: Foundation / Level 3 (UK Equivalent)

Delivery Mode: Instructor-led + Practical Labs

Course Overview

This course provides a comprehensive introduction to cloud computing concepts, platforms, and services. Learners will develop foundational knowledge of cloud infrastructure, deployment models, and industry tools, preparing them for entry-level roles in cloud environments.

Learning Outcomes

By the end of this course, learners will be able to:

- Understand cloud computing principles and service models (IaaS, PaaS, SaaS)
- Identify major cloud providers such as AWS, Azure, and Google Cloud
- Deploy and manage basic cloud resources
- Understand cloud security, compliance, and cost management
- Work with virtual machines, storage, and networking basics

Course Modules

Week 1–2: Introduction to Cloud Computing

- Cloud concepts, benefits, and evolution
- Service and deployment models

Week 3–4: Cloud Platforms Overview

- AWS, Microsoft Azure, Google Cloud
- Account setup and dashboards

Week 5–6: Compute & Storage

- Virtual Machines, Containers
- Storage types and data management

Week 7–8: Networking Fundamentals

- Virtual networks, IP addressing
- Load balancing and security groups

Week 9–10: Cloud Security & Compliance

- Identity & Access Management (IAM)
- Data protection and best practices

Week 11: Costing & Monitoring

- Pricing models
- Monitoring tools and optimisation

Week 12: Final Project

- Deploy a basic cloud solution
- Presentation and evaluation

Assessment Criteria

- Assignments (30%)
- Practical Labs (40%)
- Final Project (30%)

Certification

Certificate of Completion aligned with UK Level 3 standards

Business Intelligence & Data Visualisation

Duration: 12 Weeks

Level: Foundation / Level 4 (UK Equivalent)

Delivery Mode: Practical + Case Studies

Course Overview

This course equips learners with essential skills in data analysis, reporting, and visualisation using industry-standard tools. It focuses on transforming raw data into meaningful insights for business decision-making.

Learning Outcomes

By the end of this course, learners will be able to:

- Understand business intelligence concepts and data workflows
- Analyse datasets using Excel, SQL, and BI tools
- Create interactive dashboards and reports
- Apply data storytelling techniques
- Support data-driven decision-making

Course Modules

Week 1–2: Introduction to Business Intelligence

- BI concepts and lifecycle
- Data sources and types

Week 3–4: Data Analysis with Excel

- Functions, Pivot Tables
- Data cleaning and preparation

Week 5–6: SQL Fundamentals

- Queries, filtering, joins
- Database basics

Week 7–8: Data Visualisation Tools

- Power BI / Tableau basics
- Charts, graphs, dashboards

Week 9–10: Advanced Visualisation

- Interactive dashboards
- Data storytelling techniques

Week 11: Business Case Studies

- Real-world datasets
- KPI tracking and reporting

Week 12: Final Project

- Dashboard development
- Presentation and evaluation

Assessment Criteria

- Assignments (30%)
- Practical Work (40%)
- Final Project (30%)

Certification

Certificate of Completion aligned with UK Level 4 standards