



ICDL PROFESSIONAL Cloud Computing



The Cloud Computing module introduces the use of Internet-connected remote servers to store, manage, and process data, instead of using local servers or computers.

Cloud computing and cloud services are increasingly common technologies used by organisations to add flexibility, efficiency, and innovation. Many job roles in a range of sectors need to have an understanding of the potential of these technologies, as well as a grasp of the benefits and challenges associated with their adoption.

This module is suitable for a wide range of candidates; for example, non-technical professionals who wish to build and demonstrate an understanding of Cloud Computing, facilitating engagement with their technical colleagues or their suppliers, or students who wish to add general technical knowledge to sector-specific or general studies.

Build an understanding of the key concepts and potential of Cloud Computing for businesses and organisations



The Cloud Computing module is part of ICDL PROFESSIONAL, designed to meet the needs of modern professionals in a range of sectors.

Main learning outcomes

The Cloud Computing module consists of e-learning followed by a brief certification test. Together, these components deliver a short, focused professional development solution.

- Understand key concepts relating to cloud computing
- Recognise the features, benefits, examples, and limitations of Infrastructure as a Service (IaaS)
- Recognise the features, benefits, limitations and provide examples of Platform as a Service (PaaS)
- Recognise the features, benefits, limitations and provide examples of Software as a Service (SaaS)
- Identify features and examples of Function as a Service (FaaS)
- Know about the different models for implementing cloud computing in organisations
- Consider appropriate solutions and models for implementing cloud computing in a given scenario or situation.

Why certify with ICDL?

- ICDL certification is internationally recognised by employers and institutions.
- ICDL Insights modules combine cutting-edge e-learning with a brief certification test to demonstrate your mastery of the relevant concepts and good practice.
- ICDL Insights modules can be coupled with more comprehensive, skills-focused modules to build a profile of skills, knowledge, and competences that are relevant to your career.
- ICDL syllabus content is vendor-independent so that skills, knowledge, and competence are transferable.

Module Overview	
Category	Content
What is Cloud Computing?	<ul style="list-style-type: none"> • Define the term cloud computing • Identify the origins of cloud computing • Identify cloud computing's key services: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)
Infrastructure as a Service (IaaS)	<ul style="list-style-type: none"> • Identify the components of IaaS • Identify common examples of IaaS • Identify the benefits of IaaS • Identify the limitations of IaaS
Platform as a Service (PaaS)	<ul style="list-style-type: none"> • Identify the components of PaaS • Identify common examples of PaaS • Identify the benefits of PaaS • Identify the limitations of PaaS
Software as a Service (SaaS)	<ul style="list-style-type: none"> • Identify the components of SaaS • Identify common examples of SaaS • Identify the benefits of SaaS • Identify the limitations of SaaS
Serverless, Function as a Service (FaaS)	<ul style="list-style-type: none"> • Identify the features and purpose of a serverless solution • Identify common examples of serverless solutions
Deployment Models	<ul style="list-style-type: none"> • Identify the features of private cloud models • Identify the features of public cloud models • Identify the features of community cloud models • Identify the features of hybrid cloud models
Adoption	<ul style="list-style-type: none"> • Identify key challenges to adoption of cloud computing in an organisation • Consider appropriate services and models for a given scenario