

# ICDL PROFESSIONAL CLOUD COMPUTING

Syllabus 1.0



**Syllabus Document**

**Purpose**

This document details the syllabus for the Cloud Computing module. The syllabus describes, through learning outcomes, the knowledge and skills that a candidate for the Cloud Computing module should possess. The syllabus also provides the basis for the theory and practice-based test in this module.

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# Cloud Computing Module

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

## Module Goals

Successful candidates will be able to:

- Understand key concepts relating to cloud computing.
- Recognise the features, benefits, and limitations of Infrastructure as a Service (IaaS) and identify common examples of IaaS.
- Recognise the features, benefits, and limitations of Platform as a Service (PaaS) and identify common examples of PaaS.
- Recognise the features, benefits, and limitations of Software as a Service (SaaS), and identify common examples of 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.

CATEGORY	REF.	TASK ITEM
<b>1 What is Cloud Computing</b>	1.1	Define the term cloud computing.
	1.2	Identify the origins of cloud computing.
	1.3	Identify cloud computing's key services: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
<b>2 Infrastructure as a Service (IaaS)</b>	2.1	Identify the components of IaaS.
	2.2	Identify common examples of IaaS solutions.
	2.3	Identify the benefits of IaaS.
	2.4	Identify the limitations of IaaS.
<b>3 Platform as a Service (PaaS)</b>	3.1	Identify the components of PaaS.
	3.2	Identify common examples of PaaS solutions.
	3.3	Identify the benefits of PaaS.
	3.4	Identify the limitations of PaaS.
<b>4 Software as a Service (SaaS)</b>	4.1	Identify the components of SaaS.
	4.2	Identify common examples of SaaS solutions.
	4.3	Identify the benefits of SaaS.

CATEGORY	REF.	TASK ITEM
	4.4	Identify the limitations of SaaS.
<b>5 Serverless, Function as a Service (FaaS)</b>	5.1	Identify the features and purpose of a serverless solution.
	5.2	Identify common examples of serverless solutions.
<b>6 Deployment Models</b>	6.1	Identify the features of private cloud models.
	6.2	Identify the features of public cloud models.
	6.3	Identify the features of community cloud models.
	6.4	Identify the features of hybrid cloud models.
<b>7 Adoption</b>	7.1	Identify key challenges to adoption of cloud computing in an organisation.
	7.2	Consider appropriate services and models for a given scenario.