

Professional Cloud Developer

Certificate: Cloud Credential Council Professional Cloud Developer (PCD)

Duration: 3 days

Course Delivery: Classroom, Virtual Classroom

Course ID: VCC1320

Language: English

Course Description:

A thorough understanding of the technology platform and cloud-computing provider is essential for any cloud application developer. However, application developers benefit further from having a thorough understanding, and working-level knowledge, of vendor-neutral application design principles, ensuring that applications provide the most-value throughout the application lifecycle.

The Cloud Developer course is designed for application developers who are designing and developing applications for cloud environments. This training is delivered as a 3-day classroom or virtual classroom program. The training covers best practices on application design for cloud environments and supports many vendor technology solutions, covering Open Source and major Vendor Standards. The principles covered in the course apply to the entire application lifecycle, and are relevant to any technology or platform.

The course material includes various reference materials that help to continue participants' educational experience when they are back at work after completion of the course. The course prepares candidates for the Professional Cloud Developer Certification (PCD) Exam provided by the Cloud Credential Council. The PCD is endorsed, recognized and supported by several key technology vendors and standards bodies. The content for this course, as well as the PCD certification is based on the cloud standards developed by NIST.

Audience:

The Professional Cloud Developer course will be of interest to:

- Application Developers
- Cloud Architects

Learning Objectives:

At the end of this course, the participant will gain competencies in and be able to:

- Understand Cloud Architecture Patterns, caching, Restfull services and session management, together with security and compliance fundamentals in cloud.
- Apply and analyze knowledge about database integrations, messaging in cloud environment, and scalable coding.
- Understand development monetization techniques and license models.
- Apply knowledge about semantic web and ontologies.
- Understand development and deployment in IaaS
- Understand tenant aware application development, interoperable cloud code and application architecture models in PaaS

- Understand Software development in SaaS, Development of APIs and Mashups together with understanding of cloud service catalogues and application marketplaces.

Course Logistics:

- Classroom - U-shaped setup preferred
- Whiteboard, flipchart, and projector

Prerequisites:

There are no formal prerequisites; however, it is recommended that participants are knowledgeable in programming languages such as Java, PHP, JavaScript, etc. (and that participants are conversant with Cloud concepts and vocabulary). Participants further benefit from a strong background in application design and development.

Course Material:

Participants receive a copy of the classroom presentation material and the Participant Handbook.

About the Examination:

The Professional Cloud Developer Certification is the most recognized and well-respected Professional Certification provided by the Cloud Credential Council (CCC). Professional Certifications are awarded to candidates who have completed an approved certification-training program. Information on recommended follow-on training courses, including approved technology certification, is available from the Cloud Credential website (www.cloudcredential.org).

About the Exam:

- Exam Format: Web based, Closed Book
- Question: 25 scenario-based questions
- Pass score: 65%
- Duration: 75 minutes. For non-native speakers an additional 15 minutes is available.
- Proctoring: Live or webcam

Agenda:

Day 1	Day 2	Day 3
Cloud Architecture Patterns	Metadata and Semantic	PaaS Application Architecture Models
Service Modularity, Encapsulation and Orchestration	Deployment and Testing in the Cloud	PaaS: Interoperable Cloud Code
Development Monetization Techniques	Scalable Coding	SaaS: Cloud service catalogues and application marketplaces
Cloud Security and Compliance Fundamentals	IaaS: Deployment automation and elastic sizing of environments	SaaS: Mashups & Open APIs
	PaaS: Tenant-Aware Application Development	Certification Exam Preparation
		Self-Study and Q & A
		Exam

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