

CCP MODULE 02

Cloud Technology Concepts

This course explores a range of the most important and relevant technology-related topics that pertain to contemporary cloud computing platforms. The course content does not get into implementation or programming details, but instead keeps coverage at a conceptual level, focusing on topics that address cloud service architecture, cloud security threats and technologies, virtualization and containerization.

Proven technologies are defined and classified as concrete architectural building blocks called “mechanisms”. The purpose of this course is to introduce cloud computing-related technology topics in a manner that is accessible to a wide range of IT professionals, as well as to empower participants with an understanding of the fundamental mechanics of a cloud platform, how the different “moving parts” can be combined, and how to address common threats and pitfalls.

The following primary topics are covered:

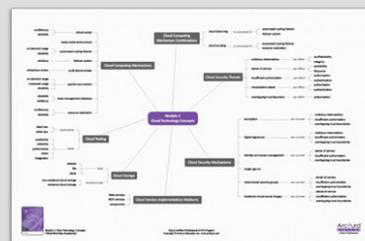
- Cloud Computing Mechanisms that Establish Architectural Building Blocks
- Virtual Servers, Containers, Ready-Made Environments, Failover Systems and Pay-Per-Use Monitors
- Automated Scaling Listeners, Multi-Device Brokers and Resource Replication
- Understanding How Individual Cloud Computing Mechanisms Support Cloud Characteristics
- An Introduction to Containerization, Container Hosting and Logical Pod Containers
- A Comparison of Containerization and Virtualization
- Cloud Balancing and Cloud Bursting Architectures
- Common Risks, Threats and Vulnerabilities of Cloud-based Services and Cloud-hosted Solutions
- Cloud Security Mechanisms used to Counter Threats and Attacks
- Understanding Cloud-Based Security Groups and Hardened Virtual Server Images
- Cloud Service Implementation Mediums (including Web Services and REST Services)
- Cloud Storage Benefits and Challenges, Cloud Storage Services, Technologies and Approaches
- Non-Relational (NoSQL) Storage Compared to Relational Storage
- Cloud Service Testing Considerations and Testing Types
- Service Grids and Autonomic Computing
- Cloud Computing Industry Standards Organizations

Duration: 1 Day

STUDY KIT CONTENTS

This course is available as part of an Arcitura Study Kit that includes the contents listed below. In addition to the base course materials used during training workshops, additional materials designed for self-study purposes are also included.

- Workbook
- Presentation Booklet
- Self-Study Guide
- Vendor Examples Supplement
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings (usb)



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CERTIFICATION

This course is part of an accreditation curriculum through which one or more official certifications can be achieved.



EXAM C90.02

Exams are generally available at Pearson VUE testing centers worldwide, via Pearson VUE online proctoring and on-site delivery as part of private workshops.

