

Cloud Computing for Auditors

Course Schedule – Topics & Activities

Day One

- What is Cloud Computing?
- Key attributes of Cloud Computing
- Adoption of cloud
 - Current landscape
 - New business models
 - Key business drivers
- Cloud computing architectures
- Cloud computing standards
- Cloud computing service delivery and deployment models
- Risks associated with Cloud computing service and deployment models
- Top Cloud considerations & challenges
- Review of the Cloud risk map

Day Two

- Understanding the shared responsibility model and potential control gaps
- Introduction to Cloud access security brokers (CASBs)
- Cloud Assurance
 - Service organization control examinations
- Cloud integrated controls framework
- Auditing the Cloud
 - Develop and audit plan based on identified cloud risks
- Role of internal audit
 - Traditional
 - Strategic advisor
- Case Study
 - Utilize Cloud risk map
 - Identify risks
 - Define scope
 - Perform audit

Day Three

- Dive into a Cloud technology - virtualization
 - Overview of virtualization
 - Risks associated with virtualization
 - Understanding private Cloud
- Understanding Cryptography
 - Overview of encryption methods
 - Risks associated with encryption

Day Four

- Dive into Cloud technology - IaaS / PaaS
 - Overview of IaaS / PaaS vendors
 - Applying the cloud shared responsibility model
 - Case studies
 - Risk and controls considerations
 - On hands lab

*Topics and activities may vary by class and instructor.