Cloud Computing for Auditors (Virtual Delivery):
Seeing through the Clouds — What the IT Auditor Needs to Know

Course Schedule – Topics & Activities

Day One
- Overview of Cloud Computing
  - What is Cloud Computing?
  - Key attributes of Cloud Computing
  - Cloud computing service delivery and deployment models
  - Understanding the shared responsibility model and potential control gaps
  - Risks associated with Cloud computing service and deployment models
  - Review of the Cloud risk map
  - Top Cloud considerations & challenges
    - Identifying IaaS, PaaS and SaaS services
    - Cloud Shared Responsibility

Day Two
- Auditing the Cloud
  - Scoping a cloud audit
  - Develop an audit plan based on identified cloud risks
  - Understanding of how to build a cloud risk framework
  - Understanding key attributes and steps involved in building an integrated risk and control framework
  - Key drivers to cloud adoption and migration methodologies
- Case discussions
  - Cloud migration methodologies

Day Three
- Overview of Amazon Web Services Cloud Platform risks and auditing
  - AWS introduction
  - AWS shared responsibility
  - AWS governance areas
  - AWS control areas
  - Logical access control
  - Demo – AWS walkthroughs
  - Change management in AWS
  - AWS network and configuration management
  - System monitoring and logging
  - Demos
    - AWS logical access controls
    - AWS change management controls
    - AWS Security Logging and Monitoring

Day Four
- Overview of DevSecOps and Containers’ risks and auditing
  - Overview of DevOps and DevSecOps
  - DevOps reference architecture and security risks
  - Understanding containers and their benefits
  - Understand container risks and mitigation control
Day Five

- Overview of Microsoft Azure Cloud Platform risks and auditing
  - Azure terminology, services and architecture overview
  - Azure governance
  - Azure key control areas
  - Azure role-based access controls
  - Logging and monitoring in Azure
  - Azure network configuration and management
  - Demos
    - Azure logical access controls
    - Azure network and configuration controls

*Topics and activities may vary by class and instructor.*