MERCURY

# Cloud Management & Information Technology IT Security Course

12 – 16 April 2027
Boston (USA)



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**Ref:** 9304_310873 **Date:** 12 – 16 April 2027 **Location:** Boston (USA) **Fees:** 9500 Euro

## Introduction:

Cloud technologies have grown significantly over the past few years. Assessing commercial appetite and developing a business case for cloud migration is just the start of a long and complicated process to achieve some of its perceived benefits. How we approach the secure migration process for our existing applications and infrastructure presents a new dilemma.

This cloud management and information technology IT security course can entail the internal policies we may need to update and enforce, risk appraisal, and legal contract management of cloud vendor partners. Furthermore, how do we protect our corporate and sensitive data against our legal obligations and engineer an appropriate security solution? These are just a few of the challenges with cloud management and security.

Transitioning to the cloud means migrating to an environment where a third party will deliver part of the security function. Given the benefits of cloud technologies, our internal risk management and security expertise must be appraised to determine the best options available from commencement. This cloud management and information technology IT security course aims to provide security and management specialists with the critical methods of assessing risk with cloud technologies and solutions.

Moreover, auditing, network, and legal professionals will benefit as we examine the latest technologies for securing cloud-based solutions while ensuring that policy, practice, and procedure cover the relevant governance and compliance considerations required with such a significant transformation.

This cloud management and information technology IT security course will provide a practitioner approach to information security management and teach how to address commercial risks and realities with current best practice guidance in line with international standards. It will detail how to be proactive in your defense solutions and have countermeasures to deal with any appropriate security breach.

## Targeted Groups:

- Technology Engineers, Chief Technology Officer CTO and Chief Information Officer CIO.
- Chief Risk Officers.
- Senior In-house Legal Counsel.
- Human Resource Professionals.
- Critical Application Development and Data Research Personnel.
- Strategic Development Directors.
- Crisis Management and Business Resumption Specialist Team Members.

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## Course Objectives:

At the end of this cloud management and information technology IT security course, the participants will be able to:

- Understand and design a risk-based assessment program for cloud providers' security solutions.
- Appreciate current threat and trend analysis for cybercrime and IT security breaches.
- Understand, identify, and respond to an information security breach.
- Be appraised of crucial risk areas in cloud vendor contracts.
- Understand the layers of cloud technologies.
- Review and understand vulnerability assessments for cloud environments.
- Consider cloud security within Information Security Management.
- Understand the approach for Crisis Management and Disaster Recovery for cloud environments.

## Targeted Competencies:

By the end of this cloud management and information technology IT security course, the participant's competencies will be able to:

- Benefits and Pitfalls of Cloud Services.
- An Overview of Information Security.
- Risk Appraisal of Electronic and Physical Data Risk.
- Cloud Vendor Service Contracts.
- Security of Corporate Data in the Cloud.
- Selecting the Appropriate Tools to Achieve the Best from Data Analytics.

## Cloud Management and Information Technology IT Security:

The cloud management and information technology IT security course is designed to equip participants with comprehensive knowledge and skills in information technology security, focusing on cloud management security.

This program covers essential aspects of IT security, preparing individuals for a career in this field. Students who complete this course earn a recognized IT security certificate, demonstrating their cloud management and IT security expertise.

This cloud management and information technology IT security program offers foundational and advanced IT security training, including cloud security management. It is an ideal choice for those seeking to enter or advance in the IT security sector.

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## Course Content:

### Unit 1: Introduction to Cloud Computing:

- Benefits and commercial considerations of cloud Computing.
- Delivery models: Software as a Service SaaS, Platform as a Service PaaS, and Infrastructure as a Service IaaS.
- Cloud types Public, Private, Hybrid.
- Choosing a cloud service provider.

### Unit 2: IT Security Evolution:

- Categorizing Physical and Electronic Risk.
- Networking and Communication Technology.
- Computer Systems Design.
- Legal and Regulatory Considerations.
- Current Threat and Trend Analysis.

### Unit 3: Compliance and Legal Considerations:

- Compliance challenges for the cloud.
- Privacy concerns.
- Data Sovereignty.
- Cloud Supplier Agreements.

### Unit 4: Crisis Management and Approaching Risk Assessment:

- Approaching Risk Assessment for Cloud.
- Internal and external assessment.
- Data Security in the cloud.
- Encryption Architectures and Key Management.
- Data Life Cycle.

### Unit 5: Identifying and Responding to Data Breaches:

- Key factors to identify a security breach.
- Crisis Management Planning.
- Dealing with the initial crisis and media management.
- Forensic and Electronic investigations.
- Responding to Business Continuity.

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## Conclusion:

Upon completion of the Cloud Management and Information Technology IT Security course, participants gain a solid foundation in information technology security through comprehensive training. This program covers essential IT security principles and delves into cloud management security strategies.

Graduates earn a valuable IT security certificate attesting to their proficiency in IT security and cloud management. This training program focuses on practical skills and industry-relevant knowledge and equips individuals with the expertise needed to navigate the complexities of cloud security management.

This cloud management and information technology IT security course offers basic and advanced training in cloud management and information security, paving the way for a successful career in IT security.