

CERTIFICATION IN CLOUD COMPUTING SOLUTIONS



Course Code : OCIT0003

The emergence of cloud technologies is disruptive across multiple sectors such as Information Technology, Manufacturing, Healthcare, Engineering, Information Architecture, Education, Data Management, Sales and Business Development. Many organizations have now gone so far as to dip their toes into the shallow end of Cloud Computing and many more are thinking about testing the waters. Cloud Technology Professional deals with intrinsic details of assessing the cloud, selecting the right cloud provider and other decision alternatives. Learners will have an understanding of the best practices involved in cloud computing and provide a framework to choose the right cloud technology provider. Location, legal and commercial aspects are also covered as part of this programme. It addresses the need of governance in the Cloud industry, various aspects to be considered in cloud governance, various delivery models and its respective solutions in cloud governance, and data privacy and security issues on the cloud.

Curriculum

Module 1: Cloud Computing Concepts

Introduction to Cloud Computing, History and Evolution of Cloud Computing, Types of Clouds, Private, Public and Hybrid Clouds, Cloud Computing Architecture, Cloud Computing Infrastructure, Merits of Cloud Computing

Module 2: Cloud Computing Delivery Models

Cloud Computing delivery Models and Services (IaaS, PaaS, SaaS), Obstacles for Cloud Technology, Cloud Vulnerabilities, Cloud Challenges, Practical Applications of Cloud Computing.

Module 3: Migrating to Cloud

Web-based Business Services, Delivering Business Processes from the Cloud: Business Process Examples, Broad Approaches to Migrating into the Cloud, The Seven-Step Model of Migration into a Cloud, Efficient Steps for Migrating to Cloud.

Module 4: Assessing the Cloud

Software Evaluation, System Testing, Seasonal or peak loading, Cost cutting and Cost-benefit Analysis, Selecting the Right Scalable Application

Module 5: Selecting Cloud Provider

Considerations for Selecting Cloud Solutions, Understanding Best Practices used in Selection of Cloud Service and Providers.

Module 6: Clouding the Standards and Best Practices Issue

Interoperability, Portability, Integration, Security, Standards Organizations and Groups Associated with Cloud Computing, Commercial and Business Consideration

Module 7: Governance in Cloud Industry Standards

Organizations and Groups associated with Cloud Computing, Need for IT Governance in Cloud Computing, Cloud Governance Solution: Access Controls, Financial Controls, Key Management and Encryption, Logging and Auditing, API Integration

Module 8: Cloud Governance High-level Requirements

Important Aspects in Cloud Governance, Key Dimensions of Cloud Governance, Activities, SPOT framework

Module 9: Cloud Governance for different delivery models

Private, Public, Hybrid and Community, Cloud Governance Solutions, IT Disintermediation, Cloud-centric IT Leadership Principles

Module 10: Legal Issues in Cloud Computing

Legal Issues: Data Privacy and Security Issues, Cloud Contracting Models, Contracting Issues, Data Security, Jurisdiction Issues on Virtualization and Data Location, Legal Issues in Commercial and Business Considerations, Compliance Issues

Learning Outcomes

- Apply cloud computing concepts in practical situations
- Identify best practices for risk management in cloud
- Analyse the right scalable option for cost management in cloud
- Explain the impact of Cloud Computing on corporate IT governance
- Review the contract terms with a cloud service provider