PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Introduction To Cloud Computing	**Course Duration**: 2.0 Days
Exam: Included	**Exam Type**: Proctored Exam
Qualification: Introduction To Cloud Computing Certificate	

Course Syllabus

Our Introduction To Cloud Computing training course covers the following Modules:

Module 1: Introduction to Cloud Computing

Defining cloud computing

- Components of a computing cloud
- Differentiating types of clouds: public, private, and hybrid

Delivering services from the cloud

- Categorising service types
- Comparing vendor cloud products: Amazon, Google, Microsoft, and others

Module 2: Adopting the Cloud

Key drivers of cloud computing solutions

- Instantaneous provisioning of computing resources
- Tapping into an infinite storage capacity
- Cost-effective pay-as-you-use billing models

Evaluating barriers to cloud computing

- Handling sensitive data
- Aspects of cloud security
- Assessing governance solutions

Module 3: Exploiting Software as a Service (SaaS)

Characterising SaaS

- Streamlining administration with centralised installation
- Optimising cost and performance with scale on demand

Comparing service scenarios

- Improving collaboration with business productivity tools
- Simplifying business process creation by integrating existing components

Inspecting SaaS technologies

- Deploying web applications
- Implementing web services: SOAP and REST
- Choosing a development platform

Module 4: Delivering Platform as a Service (PaaS)

Exploring the technical foundation for PaaS

- Specifying the components of PaaS
- Analysing vendor PaaS provisions
- Selecting an appropriate implementation

Building services with solution stacks

- Evaluating the architecture of vendor-specific platforms
- Becoming familiar with service platform tools

Managing cloud storage

- Controlling unstructured data in the cloud
- Deploying relational databases in the cloud
- Improving data availability

Employing support services

- Testing in the cloud
- Monitoring cloud-based services
- Analysing portability across platforms

Module 5: Deploying Infrastructure as a Service (IaaS)

Enabling technologies

- Scalable server clusters
- Achieving transparency with platform virtualisation
- Elastic storage devices

Accessing IaaS

- Provisioning servers on demand
- Handling dynamic and static IP addresses
- Tools and support for management and monitoring

Deploying a Private Cloud

- Leveraging an existing infrastructure
- Comparing OpenStack and Eucalyptus
- Managing resources across teams and departments
- Integrating with public clouds

Module 6: Building a Business Case

Calculating the financial implications

- Comparing in-house facilities to the cloud
- Estimating economic factors downstream

Preserving business continuity

- Selecting appropriate service-level agreements
- Safeguarding access to assets in the cloud
- Security, availability, and disaster recovery strategies

Migrating to the cloud

- Rearchitecting applications for the cloud
- Integrating the cloud with existing applications
- Selecting a vendor and avoiding vendor lock-in

Course Overview

Our three-day Introduction To Cloud Computing training course will teach you to evaluate and assess the business and technical benefits of cloud computing. Additionally, you'll gain the foundation to analyse cloud applications for use in your organisation and learn how cloud computing can provide efficient solutions to technical, business, and administrative challenges.

This introduction to cloud computing course includes 17 hours of Instructor-Led Training (ILT) or Virtual Instructor-Led Training (VILT) presented by a real-world cloud computing expert instructor.

Course Learning Outcomes

Our Introduction To Cloud Computing training course will teach you to become proficient in the following:

- Exploit the benefits of the different cloud service models: SaaS, PaaS, and IaaS
- Leverage services provided by the major public cloud providers
- Configure and provision resources on a private IaaS cloud
- Apply tips and best practices when adopting the cloud
- Leverage continued support with after-course one-on-one instructor coaching and computing sandbox

Audience

Our Introduction To Cloud Computing training course will benefit several individuals and organisations including but not limited to:

- IT Professionals
- Developers and Programmers
- Data Scientists and Analysts
- Business Analysts
- Entrepreneurs and Start-ups
- Project Managers
- Cybersecurity Professionals
- Educators and Students
- System Administrators
- Network Engineers
- Technical Sales and Marketing Professionals
- Professionals Seeking Career Transitions

Entry-Level Requirements

Our Introduction To Cloud Computing training course requires attendees to have working knowledge of internet technologies, Microsoft Windows, and web applications programming experience. A background in Cloud Computing is not required.

Recommended Reading

There is recommended reading for our Introduction To Cloud Computing training course.

What's Included

Our Introduction To Cloud Computing training course includes the following:

- Three-day instructor-led training course
- Learning Tree end-of-course exam included
- After-course computing sandbox included
- After-course instructor coaching benefit
- Pre-reading
- Course Manuel
- Quizzes
- Exercises

Exam Information

Introduction To Cloud Computing Exam:

Format: Multiple Choice
Number of questions: 40
Pass Mark: 70%.

What's Next

You may enjoy our three-day BCS Artificial Intelligence (AI) Foundation training course.

Our three-day Artificial Intelligence (AI) Foundation training course will teach you the building blocks of AI and how to use your newfound understanding of Machine Learning.

Our Artificial Intelligence (AI) Foundation training course is a fantastic opportunity to engage with AI Expert - Dr Andrew Lowe. You will learn about AI, Machine Learning and Neural Networks and be able to apply your knowledge to your current or future career.

Additional Information

Our Introduction To Cloud Computing training course offers several benefits to individuals and organisations including but not limited to:

- **Enhanced Career Opportunities**: Cloud computing skills are in high demand, and professionals with expertise in cloud technologies are sought after by companies of all sizes and industries.
- **Scalability and Flexibility**: Cloud computing allows businesses to scale their resources up or down based on demand, providing the flexibility to handle varying workloads without significant infrastructure changes.
- **Cost Savings**: Cloud computing eliminates the need for large upfront investments in hardware and infrastructure.

- **Global Accessibility**: Cloud computing enables remote access to resources and applications from anywhere with an internet connection.
- **Efficiency and Resource Optimisation**: Cloud platforms offer automated management, reducing the burden of manual administrative tasks.
- **Business Continuity and Disaster Recovery**: Cloud-based backup and recovery solutions help businesses ensure data redundancy and enable efficient disaster recovery strategies.
- **Learning Cutting-Edge Technologies**: Cloud computing involves various technologies, including virtualisation, containers, microservices, and serverless computing.
- **Skill Diversification**: Learning cloud computing often involves acquiring a wide range of skills, from infrastructure management to application development and data analytics.
- **Entrepreneurial Ventures**: Cloud computing enables startups and entrepreneurs to quickly launch and scale businesses without heavy upfront investments, making it an ideal technology for new ventures.
- **Globally Recognised Certifications**: Leading cloud providers offer certifications that validate your cloud skills and expertise, making you more attractive to employers and clients.