Mastering Cloud Computing: Migration, Deployment, and Security in the Digital Ag

UK Traininig
PARTNER

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Introduction

This course equips trainees with essential knowledge and practical skills in the field of cloud computing. Participants will learn about cloud service models, deployment strategies, migration planning, management tools, and security fundamentals. Through a practical case study, they will gain the confidence to support or lead a secure cloud transformation within their organizations.

Course Objectives

By the end of the course, participants will be able to:

- Define and differentiate cloud computing models and technologies.
- Plan and support cloud migration processes.
- Identify and utilize cloud computing tools and platforms.
- Apply fundamental information security principles in cloud environments.
- Analyze a real-world cloud transformation case and extract key lessons learned.

Course Outline

Day 1 - Fundamentals of Cloud Computing and Its Models

- Introduction to cloud computing
- Organizational benefits and drivers
- Service models: IaaS, PaaS, SaaS
- Deployment models: public, private, hybrid cloud
- Overview of CompTIA Cloud+ concepts

Day 2 - Cloud Migration Strategies and Requirements

- Assessing organizational readiness for migration
- Migration phases: planning, execution, validation
- Regulatory and technical requirements
- Common challenges and how to address them
- Change management and user adoption

Day 3 - Deployment and Management in Cloud Environments

- Overview of cloud platforms: AWS, Azure, GCP
- Monitoring, automation, and orchestration tools
- Integration with existing systems
- Planning for high availability and business continuity
- Data governance and regulatory compliance

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Day 4 - Cloud Security Fundamentals

- Cloud-related threats and risks
- Identity and Access Management IAM
- Encryption, data protection, and securing APIs
- Shared responsibility model
- Best practices for securing cloud environments

Day 5 - Case Study and Comprehensive Review

- Case study: Migrating a mid-sized organization to a hybrid cloud environment
  - Planning and executing the migration
  - Managing security and costs
  - Lessons learned and outcomes

- Group discussion and scenario analysis
- Comprehensive course review
- Optional exam or practical activity

Why attend this course? Gains & Losses!

- Develop in-demand, modern technical skills.
- Increase opportunities to lead or participate in digital transformation projects.
- Build confidence in securely managing cloud environments.
- Enhance your organization's ability to innovate and stay agile.

Conclusion

This course provides a solid foundation for any professional aiming to excel in cloud computing. Through hands-on training, a real-world case study, and interactive discussions, participants will leave with a comprehensive vision and a clear action plan to apply what they've learned in their work environments, contributing to their organizations' digital success.

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