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## Architecting on AWS

**Duration: 3 Days**    **Course Code: GK4502**

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### Overview:

This course covers the fundamentals of building IT infrastructure on the AWS platform. Students learn how to optimize the AWS Cloud by understanding how AWS services fit into cloud-based solutions. In addition, students explore AWS Cloud best practices and design patterns for architecting optimal IT solutions on AWS, and build a variety of infrastructures in guided, hands-on activities. The course also covers how to create fledgling architectures and build them into robust and adaptive solutions. The course is delivered using a combination of classroom training and hands-on labs. The hands-on activity allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

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### Target Audience:

This course is intended for Solutions Architects and Solution Design Engineers, and anyone who needs to understand the scope of cloud architectures.

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### Objectives:

- In this course you will learn how to:
  - Make architectural decisions based on AWS architectural principles and best practices
  - Leverage AWS services to make your infrastructure scalable, reliable, and highly available
  - Leverage AWS Managed Services to enable greater flexibility and resiliency in an infrastructure
  - Make an AWS-based infrastructure more efficient to increase performance and reduce costs
  - Use the Well-Architected Framework to improve architectures with AWS solutions
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### Prerequisites:

We recommend that attendees of this course have the following prerequisites:

- AWS Cloud Practitioner Essentials
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts
- GK4501 - AWS Technical Essentials

### Testing and Certification

Exam vouchers can be ordered for your certification requirement.

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### Follow-on-Courses:

- GK1980 - Advanced Architecting on AWS
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## Content:

- The Well-Architected Framework
  - Networking with AWS
  - Core AWS concepts, knowledge, and services, including designing your environment and making your environment highly available
  - Event-driven scaling
  - Automation
  - Decoupling
  - Serverless designs
  - How to grow your architecture from small to extremely large
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## Additional Information:

This course will be delivered through a mix of Instructor-led Training (ILT) and Hands-on Labs

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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