

## Advanced Course in Advanced Solutions Architect

*Cairo (Egypt)*

*2 - 6 February 2025*

UK Traininig

# PARTNER



## Advanced Course in Advanced Solutions Architect

Code: GC28 From: 2 - 6 February 2025 City: Cairo (Egypt) Fees: 4000 Pound

### Introduction

This advanced course is designed for professionals aiming to excel in the complexities of solutions architecture, with a strong focus on telecommunications systems. Participants will dive into the principles of designing, implementing, and managing complex architectures while addressing critical aspects such as vendor management, budgeting, and cybersecurity.

### Course Objectives

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

- Apply advanced principles of solutions architecture in telecommunications.
- Design scalable, secure, and efficient solutions tailored to telecom environments.
- Integrate cybersecurity strategies into architectural designs.
- Effectively manage vendor relationships and project budgets.
- Utilize engineering principles to ensure seamless system integration.

### Course Outlines

#### Day 1: Foundations of Advanced Solutions Architecture

- Core Concepts in Enterprise Solutions Architecture.
- Aligning Architecture with Business and Telecom Goals.
- Advanced Design Patterns and Principles for Telecom.
- Architectural Frameworks e.g., TOGAF, Zachman.
- Tools for Architectural Modeling and Analysis.

#### Day 2: Designing Scalable and Secure Architectures

- Scalability Strategies for Modern Architectures.
- Security by Design: Best Practices.
- High Availability and Fault-Tolerant System Design.
- Modernizing Legacy Systems in Telecom.
- Case Study: Building Scalable Architecture.

#### Day 3: Cloud and Hybrid Architectures in Telecommunications

- Architecting Multi-Cloud and Hybrid Telecom Environments.
- Cloud-Native Technologies: Microservices and Serverless Models.
- Integrating Cloud and On-Premises Telecom Systems.



- Cybersecurity Strategies for Cloud and Hybrid Architectures.
- Hands-On Exercise: Designing a Telecom Cloud Architecture.

#### Day 4: Vendor Management, Budgeting, and System Integration

- Best Practices for Vendor Management in Telecom Projects.
- Budget Planning and Cost Optimization Strategies.
- API Integration and Real-Time Data Management Across Systems.
- Bridging Engineering Practices with Architectural Design.
- Workshop: Developing a Cost-Efficient Vendor and System Integration Plan.

#### Day 5: Emerging Trends and Governance in Telecom

- AI and Machine Learning in Telecom Architecture.
- Edge Computing and IoT Applications in Telecommunications.
- Governance and Compliance in Telecom Solution Design.
- Managing the Lifecycle of Telecom Solutions Development.
- Capstone Project: Presentation and Q&A Session.

#### Why Attend This Course: Wins & Losses

- Gain in-depth knowledge of advanced solutions architecture principles in telecommunications.
- Develop the ability to design secure, scalable, and integrated solutions tailored to telecom needs.
- Enhance skills in managing vendor relationships and project budgets effectively.
- Prepare for emerging trends such as AI, machine learning, and IoT in telecom architectures.

#### Conclusion

This course offers a unique opportunity to gain advanced expertise in solutions architecture with a focus on telecommunications systems. By combining theoretical knowledge with practical application, this course will empower you to lead advanced engineering projects in the telecom industry, giving you a competitive edge in this fast-paced field.





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