Global Horizon
TRAINING CENTER

Training Course:
Excellence in IT Engineering and Systems Integration

7 - 11 September 2026
London (UK)

Training Course:
Excellence in IT Engineering and Systems Integration

Training Course code: IT235531 From: 7 - 11 September 2026 Venue: London (UK) - Training Course Fees: 6300 Euro

Introduction

The Excellence in IT Engineering and Systems Integration program is designed to provide participants with in-depth knowledge and practical skills in IT engineering and systems integration. The program focuses on modern methodologies, best practices, and emerging technologies that drive successful systems integration projects. It aims to enhance participants capabilities in integrating complex systems to achieve organizational goals, optimize processes, and ensure seamless interoperability between diverse platforms and technologies.

Target Audience

- IT Engineers
- Systems Integration Specialists
- IT Project Managers
- Systems Architects
- Network Engineers
- Professionals involved in managing, designing, or overseeing IT and systems integration projects

Objectives

- To provide a comprehensive understanding of systems integration principles and IT engineering methodologies.
- To enhance participants' skills in managing and executing complex IT integration projects.
- To familiarize participants with the tools and techniques required for integrating different systems and ensuring their compatibility.
- To develop participants' knowledge of emerging technologies that impact systems integration.
- To enable participants to troubleshoot, analyze, and optimize integrated systems for better performance and reliability.

Outline

Day 1: Foundations of IT Engineering and Systems Integration

- Session 1: Introduction to IT Engineering Concepts
  - Core principles of IT engineering
  - Key components of IT infrastructure
  - Roles and responsibilities of IT engineers in systems integration
- Session 2: Understanding Systems Integration
  - Definition and importance of systems integration
  - Common challenges in integrating systems
  - Case studies of successful and failed integration projects
- Session 3: System Architectures and Integration Models
  - Layered architectures and system interfaces
  - Integration patterns: point-to-point, hub-and-spoke, enterprise service bus ESB, etc.

- Introduction to cloud integration

Day 2: Tools, Techniques, and Technologies for Systems Integration

- Session 1: Integration Tools and Technologies
  - Overview of integration platforms and tools e.g., middleware, APIs, microservices
  - Choosing the right integration tool based on project needs
  - Integration using RESTful APIs and Web Services
- Session 2: Data Integration and Middleware Solutions
  - Data integration methodologies and technologies
  - Role of middleware in systems integration
  - Managing data consistency, security, and quality
- Session 3: Emerging Technologies in Systems Integration
  - Impact of cloud computing, IoT, and AI on integration processes
  - Introduction to DevOps and continuous integration/continuous delivery CI/CD
  - Utilizing AI and machine learning for enhanced integration

Day 3: Integration Process Design and Implementation

- Session 1: Planning and Designing Systems Integration Projects
  - Setting integration objectives and requirements
  - Creating systems integration roadmaps
  - Identifying integration touchpoints and interfaces
- Session 2: Implementation Best Practices
  - Step-by-step guide to successful integration
  - Testing and validation in systems integration
  - Tools for monitoring and managing integration progress
- Session 3: Handling Complex Systems and Legacy Systems
  - Challenges in integrating legacy systems with modern platforms
  - Strategies for integrating heterogeneous systems
  - Migration techniques and best practices

Day 4: Security, Risk Management, and Troubleshooting in Systems Integration

- Session 1: Securing Integrated Systems
  - Common security threats in systems integration
  - Ensuring data privacy and protection during integration
  - Tools for security monitoring and threat detection
- Session 2: Risk Management in Systems Integration
  - Identifying risks in integration projects
  - Developing risk mitigation strategies
  - Case studies of risk management in integration projects
- Session 3: Troubleshooting and Optimizing Integrated Systems
  - Common integration issues and their solutions
  - Tools for troubleshooting and system diagnostics
  - Techniques for optimizing system performance post-integration

Day 5: Advanced Topics and Future Trends in Systems Integration

- Session 1: Advanced Systems Integration Techniques

    - Event-driven architectures for integration
    - Integration using AI and automation tools
    - Application of blockchain in secure integrations
- Session 2: Future Trends in IT Engineering and Systems Integration
    - The role of quantum computing in future integration efforts
    - How 5G technology impacts systems integration
    - Preparing for the next generation of IT engineering and integration projects

Registration form on the Training Course: Excellence in IT Engineering and Systems Integration

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Person Responsible for Training and Development

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.