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Course Name

Advanced Systems Architecture and Integration

Sector Name

Civil Engineering

Document Type

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Advanced Systems Architecture and Integration

Course Introduction

This course focuses on the principles and practices of systems architecture and integration in complex engineering environments. It covers both theoretical concepts and practical applications, enabling participants to design and implement robust, scalable system architectures.

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Advanced Systems Architecture and Integration

Target Audience

✓ Civil engineers.
✓ Experienced Civil Engineers Seeking Professional Development
✓ Architects and Urban Planners
✓ Entrepreneurs in the Construction Industry
✓ Project Managers in the Construction Industry

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Advanced Systems Architecture and Integration

Learning Objectives

✓ Understand advanced concepts in systems architecture
✓ Learn to design and implement complex integrated systems
✓ Develop skills in systems thinking and holistic design approaches
✓ Gain knowledge of emerging technologies and their integration
✓ Enhance problem-solving skills for system-level challenges

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Advanced Systems Architecture and Integration

Course Outline

✓ DAY 01

Fundamentals of Advanced Systems Architecture

- ✓ Systems thinking and its application in engineering
- ✓ Architectural patterns and styles
- ✓ Requirements engineering for complex systems

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Course Outline

✓ Day 02

System Integration Strategies

- ✓ Integration patterns and best practices
- ✓ Middleware technologies and their applications
- ✓ Interoperability challenges and solutions

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Course Outline

✓ Day 03

Scalability and Performance in System Design

- ✓ Designing for scalability
- ✓ Performance modeling and analysis
- ✓ Capacity planning and management

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Course Outline

✓ Day 04

Emerging Technologies and Their Integration

- ✓ IoT and edge computing in system architecture
- ✓ Cloud and hybrid architectures
- ✓ AI and machine learning integration

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Course Outline

✓ Day 05

Architecture Governance and Management

- ✓ Enterprise architecture frameworks
- ✓ Architecture evaluation methods
- ✓ Managing architectural debt

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 19, 2027	July 23, 2027	5 days	4250.00 $	UAE , Abu Dhabi
May 3, 2027	May 7, 2027	5 days	4250.00 $	UAE , Dubai
Jan. 24, 2027	Jan. 28, 2027	5 days	4250.00 $	Bahrain , Manama
Oct. 26, 2026	Oct. 30, 2026	5 days	5950.00 $	USA , Texas

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