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Course Name

Advanced Systems Integration in Engineering and Operations

Sector Name

Quality Management & Operational Excellence

Document Type

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Advanced Systems Integration in Engineering and Operations

Course Introduction

This course is designed for engineering and operations professionals who need to manage complex system integrations. It covers advanced techniques for integrating various engineering systems, processes, and technologies to create cohesive and efficient operational environments.

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Advanced Systems Integration in Engineering and Operations

Target Audience

- ✓ Quality & Process Engineers – Improving system integration.
- ✓ Operations & Manufacturing Managers – Optimizing processes.
- ✓ Systems & Industrial Engineers – Enhancing quality systems.
- ✓ IT & Digital Experts – Implementing smart solutions.
- ✓ Supply Chain & Procurement Professionals – Strengthening supplier integration.
- ✓ Compliance Officers – Ensuring regulatory alignment.

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Learning Objectives

- ✓ Develop comprehensive integration strategies for complex engineering systems
- ✓ Apply advanced methodologies for seamless integration of diverse technologies
- ✓ Manage cross-functional teams in integration projects
- ✓ Identify and mitigate risks associated with system integration
- ✓ Implement best practices for continuous integration and deployment
- ✓ Evaluate and optimize integrated systems for enhanced performance

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Course Outline

✓ DAY 1

Foundations of Advanced Systems Integration

- ✓ Overview of systems integration in engineering and operations
- ✓ Integration architectures and frameworks
- ✓ Interoperability standards and protocols
- ✓ Systems of systems (SoS) integration concepts
- ✓ Case study: Analyzing a complex integration scenario

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Course Outline

✓ DAY 2

Integration Planning and Strategy Development

- ✓ Developing comprehensive integration plans
- ✓ Stakeholder analysis and management in integration projects
- ✓ Integration requirements gathering and analysis
- ✓ Technology selection and compatibility assessment
- ✓ Workshop: Creating an integration strategy for a given scenario

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Course Outline

✓ DAY 3

Advanced Integration Techniques and Tools

- ✓ Service-oriented architecture (SOA) in system integration
- ✓ API management and microservices architecture
- ✓ Data integration and ETL (Extract, Transform, Load) processes
- ✓ Cloud integration platforms and technologies
- ✓ Hands-on session: Implementing an integration solution using modern tools

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Course Outline

✓ DAY 4

Integration Testing and Quality Assurance

- ✓ Test planning for integrated systems
- ✓ Automated testing strategies for continuous integration
- ✓ Performance testing of integrated systems
- ✓ Security testing in integrated environments
- ✓ Practical exercise: Developing and executing integration test plans

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Course Outline

✓ DAY 5

Optimization and Continuous Improvement of Integrated Systems

- ✓ Monitoring and analytics for integrated systems
- ✓ Continuous integration and continuous deployment (CI/CD) practices
- ✓ Change management in integrated environments
- ✓ Future trends in systems integration (AI, IoT, blockchain)
- ✓ Final project: Presenting an optimized integration solution

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 12, 2027	July 16, 2027	5 days	4950.00 \$	Spain , Madrid
Nov. 2, 2026	Nov. 6, 2026	5 days	4250.00 \$	UAE , Dubai
May 23, 2027	May 27, 2027	5 days	4250.00 \$	KSA , Riyadh
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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