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**Course Name**

# Advanced Test Automation and DevOps Integration

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**Sector Name**

Information Technology

**Document Type**

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## Advanced Test Automation and DevOps Integration

### Course Introduction

This course focuses on leveraging automation and DevOps practices to enhance testing processes in systems design. It provides managers with advanced knowledge and skills to implement and manage automated testing solutions within a DevOps framework.

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## Advanced Test Automation and DevOps Integration

### Target Audience

- ✓ Test Automation Engineer
- ✓ DevOps Engineer
- ✓ QA Engineer
- ✓ Software Development Engineer in Test (SDET)
- ✓ CI/CD Engineer
- ✓ IT Operations Manager
- ✓ Software Architect
- ✓ Cloud Engineer
- ✓ Site Reliability Engineer (SRE)
- ✓ IT Project Manager

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## Advanced Test Automation and DevOps Integration

### Learning Objectives

- ✓ Understand the principles of test automation and its role in DevOps
- ✓ Develop skills to design and implement effective test automation strategies
- ✓ Learn to integrate automated testing into CI/CD pipelines
- ✓ Gain insights into managing and scaling test automation in large projects
- ✓ Master techniques for measuring and improving the ROI of test automation

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## Advanced Test Automation and DevOps Integration

### Course Outline

#### ✓ Day 01

##### **Foundations of Test Automation in DevOps**

- ✓ Principles of test automation and DevOps integration
- ✓ Test automation frameworks and tools
- ✓ Challenges and benefits of test automation in complex systems
- ✓ Case study: Successful test automation implementations

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## Advanced Test Automation and DevOps Integration

### Course Outline

#### ✓ Day 02

##### **Designing Test Automation Strategies**

- ✓ Selecting appropriate tests for automation
- ✓ Creating maintainable and scalable automated test suites
- ✓ Test data management in automated environments

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## Advanced Test Automation and DevOps Integration

### Course Outline

#### ✓ Day 03

##### **Continuous Testing in CI/CD Pipelines**

- ✓ Integrating automated tests into CI/CD workflows
- ✓ Shift-left testing approaches in DevOps
- ✓ Performance and security testing in CI/CD
- ✓ Hands-on exercise: Setting up a continuous testing pipeline

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## Advanced Test Automation and DevOps Integration

### Course Outline

#### ✓ Day 04

##### **Managing and Scaling Test Automation**

- ✓ Building and leading test automation teams
- ✓ Managing test environments and infrastructure
- ✓ Scaling test automation for large-scale projects
- ✓ Group discussion: Overcoming challenges in test automation adoption

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## Advanced Test Automation and DevOps Integration

### Course Outline

#### ✓ Day 05

##### **Measuring Success and Continuous Improvement**

- ✓ Metrics for evaluating test automation effectiveness
- ✓ Cost-benefit analysis of test automation initiatives
- ✓ Continuous improvement in automated testing processes
- ✓ Action planning: Developing a test automation roadmap

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## Advanced Test Automation and DevOps Integration

### Confirmed Sessions

| FROM           | TO             | DURATION | FEES       | LOCATION          |
|----------------|----------------|----------|------------|-------------------|
| March 15, 2027 | March 19, 2027 | 5 days   | 4250.00 \$ | UAE , Dubai       |
| May 23, 2027   | May 27, 2027   | 5 days   | 4250.00 \$ | KSA , Riyadh      |
| Nov. 23, 2026  | Nov. 27, 2026  | 5 days   | 5950.00 \$ | USA , Los Angeles |
| July 19, 2027  | July 23, 2027  | 5 days   | 4250.00 \$ | UAE , Dubai       |

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