



OutSystems DevOps Engineering Training: Automating CI/CD and Low-Code Operations



AGILE LEADERS
Training Center

-OutSystems DevOps Engineering Training: Automating CI/CD and Low Code Operations

Course Overview:

The OutSystems DevOps Mastery: Building Scalable Low-Code CI/CD Pipelines course empowers professionals to design, implement, and manage enterprise-grade DevOps automation with OutSystems, the leading low-code platform for rapid digital transformation. Participants will explore how to achieve continuous integration, continuous delivery, and infrastructure automation within OutSystems platform operations, ensuring scalable, reliable, and secure software delivery.

The program focuses on enterprise DevOps with OutSystems, environment management, test automation, monitoring, and pipeline deployment strategies to help teams build resilient CI/CD ecosystems. By integrating -governance and automation, participants gain practical expertise to transform their organizations into high performing, agile, and scalable low-code enterprises.

Target Audience:

- DevOps Engineers and Platform Administrators
- IT Operations and Infrastructure Managers
- Software Architects and Technical Leads
- OutSystems Developers and Low-Code Engineers
- QA Automation Engineers and Test Managers
- Digital Transformation and Innovation Leaders

Targeted Organizational Departments:

- IT Operations and Platform Management
- Software Development and Engineering
- Cloud Infrastructure and Deployment
- Quality Assurance and Automation
- Enterprise Architecture and Governance
- Digital Transformation and Process Innovation

Targeted Industries:

- Financial Services and Banking
- Telecommunications and Technology
- Government and Public Sector
- Healthcare and Life Sciences
- Manufacturing and Energy
- Consulting and Systems Integration

Course Offerings:

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

- Apply DevOps automation with OutSystems for lifecycle management.
- Design and optimize CI/CD pipelines for scalable deployments.
- Manage environment governance and infrastructure automation.
- Implement continuous testing and monitoring frameworks.
- Integrate cloud-native deployment and containerization.
- Establish robust release management and governance models.

Training Methodology:

This course uses a blended methodology that combines guided instruction, case studies, and simulation-based exercises. Participants engage in collaborative discussions, real-world deployment scenarios, and problem-solving sessions to apply OutSystems DevOps best practices. Each session focuses on hands-on implementation of DevOps principles within OutSystems, including automation workflows, governance structures, and monitoring techniques. Reflection and feedback at the end of each day consolidate learning outcomes and encourage practical application.

Course Toolbox:

- Checklists for CI/CD pipeline planning and deployment sequencing
- Templates for governance and change management in OutSystems environments
- Reference models for environment management and DevOps workflows
- Quality assurance and performance validation frameworks
- Practical examples of test automation and monitoring structures
- Guides for scaling, troubleshooting, and optimizing OutSystems infrastructure

Note: Tools are not physically provided but illustrated through practical insights and guided examples during the sessions.

Course Agenda:

Day 1: Introduction to OutSystems DevOps and Platform Foundations

- Understanding Low-Code DevOps Principles and the OutSystems Ecosystem Topic 1:
- Overview of OutSystems Platform Operations and Architecture Layers Topic 2:
- Roles and Responsibilities in Enterprise DevOps with OutSystems Topic 3:
- Setting Up and Configuring OutSystems Environments for DevOps Topic 4:
- Key Governance Models and Platform Health Management Topic 5:
- Aligning DevOps Strategy with Business Agility and Scalability Topic 6:
- Reviewing OutSystems DevOps Fundamentals and Platform Setup Reflection & Review:



Day 2: Continuous Integration and Build Automation

- Introduction to OutSystems Continuous Integration CI Framework Topic 1: •
- Version Control, Change Management, and Repository Strategy Topic 2: •
- Automating Builds and Managing Dependencies in OutSystems Topic 3: •
- Integrating Testing within CI Pipelines for Quality Assurance Topic 4: •
- Managing Platform Security and Access Controls in CI Workflows Topic 5: •
- CI Optimization: Performance Tuning and Error Recovery Topic 6: •
- Establishing a Sustainable Continuous Integration Pipeline Reflection & Review: •

Day 3: Continuous Delivery, Deployment, and Automation

- Understanding Continuous Delivery CD and its Importance in OutSystems Topic 1: •
- Designing End-to-End Delivery Pipelines and Deployment Strategies Topic 2: •
- Multi-Environment Configuration and Deployment Governance Topic 3: •
- Implementing Infrastructure as Code IaC in OutSystems DevOps Topic 4: •
- Automating Rollbacks, Approvals, and Release Management Topic 5: •
- Building Scalable and Secure OutSystems Pipeline Deployments Topic 6: •
- Enhancing Delivery Efficiency through Automation Reflection & Review: •

Day 4: Test Automation, Quality Engineering, and Monitoring

- Fundamentals of Test Automation in OutSystems DevOps Topic 1: •
- Integrating Automated Testing Tools and Frameworks Topic 2: •
- Regression, Load, and Performance Testing in Low-Code Environments Topic 3: •
- Monitoring Applications and Infrastructure in Real Time Topic 4: •
- Using Metrics and Dashboards for Performance Visibility Topic 5: •
- Implementing Alerts, Log Analytics, and Issue Tracking Topic 6: •
- Ensuring Quality and Performance through Continuous Testing Reflection & Review: •

Day 5: Governance, Scaling, and Advanced DevOps Strategies

- Governance and Compliance in OutSystems Platform Operations Topic 1: •
- Scaling DevOps Across Teams, Projects, and Enterprises Topic 2: •
- Cloud-Native Deployments and Containerization with OutSystems Topic 3: •
- Implementing Advanced Security in CI/CD Pipelines Topic 4: •
- Building Predictive Monitoring and AI-driven Automation Topic 5: •
- Future Trends in Low-Code DevOps and Organizational Transformation Topic 6: •
- Designing a Long-Term DevOps Roadmap for OutSystems Success Reflection & Review: •

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Participants should have a background in software development, IT operations, or platform administration. Familiarity with OutSystems or general DevOps concepts is helpful but not mandatory.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day consists of 4 to 5 hours of interactive learning, combining instruction, casework, and group discussions. The total course duration is approximately 25 hours across five days.

How does OutSystems support automated testing and continuous delivery?

OutSystems supports automated testing and delivery through integrated CI/CD pipelines, automated build management, test execution frameworks, and governance mechanisms that align with DevOps best practices.

How This Course is Different from Other OutSystems DevOps Courses:

This program stands out for its focus on practical low-code DevOps training tailored to enterprise OutSystems environment management. Unlike general DevOps courses, it integrates governance, automation, testing, and delivery practices specific to the OutSystems platform.

Participants learn to design CI/CD pipelines, automate deployments, and establish governance frameworks that align business goals with technical execution. The course ensures professionals can deliver measurable efficiency, scalability, and innovation using OutSystems-driven DevOps methodologies.



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الدار البيضاء - المغرب



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الكويت - الكويت



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براغ - جمهورية التشيك



بانكوك - تايلاند



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WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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