

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

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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

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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.

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Course Agenda:

Day 1: Introduction to OutSystems DevOps and Platform Foundations

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

Day 2: Continuous Integration and Build Automation

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

Day 3: Continuous Delivery, Deployment, and Automation

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

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Day 4: Test Automation, Quality Engineering, and Monitoring

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

Day 5: Governance, Scaling, and Advanced DevOps Strategies

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

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 one week.

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.

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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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- Communication and Public Relations Training Courses
- Crisis Management and Business Continuity Training Courses
- Data Analytics Training and Data Science Courses
- Digital Government & Public Service Training Courses
- Education and Learning Development Training Courses
- Environment & Sustainability Training Courses
- Facilities and Real Estate Training Courses
- Finance and Accounting Training Courses
- Governance, Risk and Compliance Training Courses
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- Quality and Operations Management Training Courses
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- Shipping, Maritime and Ports Training Courses

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