



The DevOps Practitioner Mastery: From Continuous Integration to Cloud Automation course



AGILE LEADERS
Training Center

The DevOps Practitioner Mastery: From Continuous Integration to Cloud Automation course

Course Overview:

The DevOps Practitioner Mastery: From Continuous Integration to Cloud Automation course is a specialized corporate training program designed to equip professionals with the knowledge and skills to build, automate, and optimize modern DevOps ecosystems. It covers CI/CD Pipeline Training, Infrastructure as Code IaC, Continuous Integration and Delivery, Kubernetes and Docker Training, DevOps Automation Tools, Jenkins, GitLab CI, Ansible, Terraform, Cloud DevOps Practices, DevSecOps Implementation, Monitoring and Observability, and Agile and DevOps Integration.

Participants will gain practical, hands-on experience in integrating development and operations teams through automation, collaboration, and continuous improvement practices. The course emphasizes how to use DevOps principles to improve deployment frequency, ensure security, and increase system reliability. By the end, participants will be able to design and implement scalable CI/CD pipelines, manage infrastructure efficiently, and apply DevSecOps frameworks for secure and agile software delivery.

Target Audience:

- DevOps Engineers and Practitioners
- Cloud Engineers and Architects
- System Administrators and IT Managers
- Software Developers and QA Specialists
- Security Engineers and DevSecOps Professionals
- IT Project Managers and Agile Coaches
- Infrastructure and Operations Leaders

Targeted Organizational Departments:

- IT Infrastructure and Cloud Operations
- Software Engineering and Development Teams
- Quality Assurance and Testing Divisions
- Cybersecurity and Compliance Units
- Continuous Delivery and Automation Departments
- Agile and Digital Transformation Offices

Targeted Industries:

- Information Technology and Cloud Services
- Banking, Financial Services, and FinTech
- Healthcare, Pharmaceuticals, and Life Sciences
- Energy, Oil & Gas, and Industrial Automation
- Telecommunications and Data Centers
- Government, Public Sector, and Smart City Projects
- E-commerce and Logistics

Course Offerings:

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

- Design and deploy CI/CD pipelines for automated delivery and deployment
- Implement Infrastructure as Code IaC using Terraform and Ansible
- Automate containerized applications with Kubernetes and Docker
- Integrate DevSecOps into CI/CD for secure software delivery
- Manage monitoring, observability, and performance tracking
- Apply Cloud DevOps practices across hybrid and multi-cloud environments
- Align Agile practices with DevOps principles for faster innovation

Training Methodology:

This course uses a hands-on, activity-driven methodology combining expert instruction, collaborative group work, and simulation-based learning. Participants will engage in real-world scenarios that involve building pipelines, automating infrastructure, deploying containerized applications, and implementing monitoring and observability systems. Through guided case studies, role-based exercises, and reflective discussions, attendees will understand how DevOps aligns technical workflows with business goals while promoting agility, collaboration, and continuous improvement.

Course Toolbox:

- Participant handbook and activity sheets
- CI/CD design templates and diagrams
- IaC checklists and sample code snippets
- DevSecOps pipeline framework
- Monitoring and observability metrics sheet
- Cloud DevOps strategy maps
- Agile and DevOps assessment toolkits

Note: Tools are not provided, only conceptual and implementation insights.

Course Agenda:



Day 1: DevOps Foundations and Agile Integration

- Introduction to DevOps and its Business Value Topic 1: •
- The DevOps Lifecycle: Plan, Code, Build, Test, Release, Deploy, Operate, Monitor Topic 2: •
- Principles of Agile and DevOps Integration Topic 3: •
- Building a Collaborative DevOps Culture and Mindset Topic 4: •
- Understanding DevOps Automation Tools and Workflows Topic 5: •
- Overcoming Barriers in DevOps Transformation Topic 6: •
- Review of DevOps maturity levels and lessons learned from successful Agile-DevOps Reflection & Review: •
- integrations

Day 2: CI/CD Pipeline Design and Implementation

- Fundamentals of Continuous Integration and Continuous Delivery Topic 1: •
- Designing a Scalable CI/CD Pipeline Architecture Topic 2: •
- Automating Pipelines with Jenkins and GitLab CI Topic 3: •
- Integrating Automated Testing and Quality Gates Topic 4: •
- Managing Releases and Deployment Strategies Topic 5: •
- CI/CD Best Practices and Common Pitfalls to Avoid Topic 6: •
- Evaluating team performance through CI/CD maturity assessment Reflection & Review: •

Day 3: Infrastructure as Code and Automation Mastery

- Introduction to Infrastructure as Code IaC and Automation Concepts Topic 1: •
- Configuration Management Using Ansible and Terraform Topic 2: •
- Automating Infrastructure Provisioning in Cloud Environments Topic 3: •
- Managing Consistency and Versioning in IaC Pipelines Topic 4: •
- Implementing DevSecOps in IaC for Security Compliance Topic 5: •
- Troubleshooting and Optimizing Automation Workflows Topic 6: •
- Discussion on real-world automation challenges and resilience strategies Reflection & Review: •

Day 4: Containerization, Cloud, and DevSecOps Practices

- Understanding Docker and Containerization Fundamentals Topic 1: •
- Managing Kubernetes Clusters and Container Orchestration Topic 2: •
- Applying Cloud DevOps Practices for Hybrid and Multi-Cloud Environments Topic 3: •
- Embedding Security in CI/CD with DevSecOps Principles Topic 4: •
- Implementing Continuous Monitoring and Observability Dashboards Topic 5: •
- Best Practices for Secure, Reliable Cloud-Native Deployments Topic 6: •
- Group discussion on integrating security and observability within cloud automation Reflection & Review: •

Day 5: Scaling, Measuring, and Optimizing DevOps

- Measuring DevOps Performance with Key Metrics and KPIs Topic 1: •
- Scaling DevOps Across Teams and Departments Topic 2: •
- Continuous Improvement and Organizational Maturity Models Topic 3: •
- Governance, Risk Management, and Change Control in DevOps Topic 4: •
- Aligning Business Goals with DevOps Strategy Topic 5: •
- Capstone Project: Designing an End-to-End Automated Delivery Pipeline Topic 6: •
- Presentation, feedback, and roadmap for continuous improvement Reflection & Review: •

FAQ:

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

Participants should have a basic understanding of IT infrastructure, software development, or cloud environments. Prior exposure to scripting or automation tools is helpful but not required.

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

Each day's session lasts 4-5 hours, including breaks, discussions, and activities. The total course duration is approximately 25 hours.

How can DevSecOps improve CI/CD pipeline performance?

DevSecOps strengthens CI/CD pipelines by integrating automated security checks at every stage of development, ensuring compliance and reducing vulnerabilities while maintaining deployment speed.

How This Course is Different from Other DevOps Courses:

DevOps Practitioner Mastery: From Continuous Integration to Cloud Automation stands out for its balance of strategy and hands-on implementation. It combines CI/CD Pipeline Training, Infrastructure as Code, Kubernetes and Docker Training, DevSecOps Implementation, Monitoring and Observability, and Cloud DevOps Practices into one unified curriculum.

Unlike other courses that focus solely on tools, this program develops both technical expertise and leadership mindset. It emphasizes real-world application, cross-functional collaboration, and organizational scalability, enabling participants to design secure, automated, and high-performing DevOps ecosystems that align with enterprise objectives.



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الكويت - الكويت



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شيكاغو - الولايات المتحدة
الامريكية

مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترنو - سويسرا



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مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

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.



AGILE LEADERS
Training Center

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