



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

11 - 15 Oct 2026
Manama



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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

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

Day 2: CI/CD Pipeline Design and Implementation

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

Day 3: Infrastructure as Code and Automation Mastery

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

Day 4: Containerization, Cloud, and DevSecOps Practices

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



Day 5: Scaling, Measuring, and Optimizing DevOps

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

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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