

EXIN DEVOPS PROFESSIONAL

Duration: 3 days; Instructor-led | Virtual Instructor-led

WHAT WILL YOU LEARN

DevOps is a set of best practices that emphasizes collaboration and communication of IT professionals in the lifecycle of applications and services. The EXIN DevOps Professional certification validates your expertise in DevOps principles and practices, enabling you to deliver reliable products and services rapidly.

This certification explores DevOps practices, emphasizing collaboration among IT professionals, fostering:

- Continuous integration: Merging developed working copies to a shared mainline multiple times a day.
- Continuous deployment: Releasing continuously or as frequently as possible.
- Continuous feedback: Seeking stakeholder feedback throughout all lifecycle stages.

This transformative program, inspired by the Three Ways of DevOps, covers:

- Flow: Facilitating fast movement from Development to Operations to the customer.
- Feedback: Enabling rapid feedback from stakeholders back into the value stream.
- Continual learning and experimentation: Cultivating a high-trust culture of experimentation and risk-taking for continual learning.

The certification delves into security across all stages and ensures compliance during change. Uncover the impact of these principles on daily work in this comprehensive EXIN DevOps Professional program.

COURSE OBJECTIVES

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

- DevOps Adoption
 - Grasp basic DevOps concepts and distinguish the principles of flow, feedback, and continuous learning & experimentation.
 - Understand the collaboration among DevOps roles, I/T/E-shape concepts, and integrating Operations into daily Development work.
- The First Way: Flow
 - Learn techniques for deployment challenges, optimizing the value stream, assessing shared version control, and managing technical debt.

- Understand low-risk release patterns, architectural archetypes, and automation tools for building environments.
- The Second Way: Feedback
 - Gain insights into telemetry, monitoring frameworks, and safety checks.
 - Learn to solve deployment issues, adapt launch guidance, and apply feedback mechanisms like UX design, A/B-testing, and hypothesis-driven development.
- The Third Way: Continual Learning and Experimentation
 - Explore Simian Army, postmortems, resilience through production failure injection, game days, and codified NFRs for Operations.
 - Understand building reusable user stories, storing objects, and converting local discoveries into global improvements.
- Information Security and Change Management
 - Integrate security controls, telemetry, and compliance into the deployment pipeline.
 - Learn to maintain security during change and ensure compliance throughout.

PREREQUISITES

Completing the EXIN DevOps Foundation exam or possessing equivalent DevOps knowledge is recommended.

AUDIENCE

The EXIN DevOps Professional certification is designed for anyone working in a DevOps environment or considering a DevOps transition. It is relevant to a wide range of IT professionals, including:

- Software & website developers
- DevOps Engineers
- Product & service owners
- Project managers
- Testers
- IT support staff

METHODOLOGY

This program will be conducted with interactive lectures, PowerPoint presentations, discussions, and practical exercises.

COURSE CONTENTS

Module 1: DevOps adoption

- Basic concepts of DevOps
- Principles of the Three Ways
- Organization

Module 2: The First Way: flow

- Deployment pipeline
- Automated testing
- Continuous integration
- Low-risk releases

Module 3: The Second Way: feedback

- Telemetry
- Feedback
- Hypothesis-driven development
- A/B-testing
- Review and coordination

Module 4: The Third Way: continual learning and experimentation

- Learning
- Discoveries

Module 5: Information security and change management

- Information security
- Change management