

DevOps Foundation®

Course Duration: 16 Hours (2 Days)

Overview

The DevOps Foundation® course is designed to provide learners with a comprehensive introduction to the DevOps philosophy, covering its core principles, essential practices, and relevant frameworks. It kicks off with lessons defining DevOps and exploring its significance in the modern tech landscape. Learners will delve into the Three Ways of DevOps, understand the Theory of Constraints, and learn about Chaos Engineering and the attributes of Learning Organizations. Through the course, participants will also engage with key DevOps practices such as Continuous Delivery, Site Reliability Engineering, Descope, and more. They will study various business and technology frameworks including Agile and Lean and examine cultural aspects and behaviours crucial to DevOps transformation. The curriculum further includes automation strategies, constructing DevOps toolchains, and leveraging metrics for improvement. Finally, the course emphasizes the importance of collaboration, leadership, and continuous evolution in the DevOps journey. By enrolling in DevOps foundations classes, learners will gain the knowledge and skills necessary to contribute to and lead successful DevOps initiatives within their organizations.

Audience Profile

The DevOps Foundation® course is designed for professionals seeking to understand the principles and practices of DevOps

- Software Developers
- IT Professionals
- Operations Staff
- System Administrators
- Project Managers
- IT Managers and Directors
- Quality Assurance Staff
- Engineers
- Maintenance and Support Staff
- Product Owners
- Agile Scrum Practitioners
- Lean IT Practitioners
- Business Analysts
- Management Consultants
- Internal Change Agents
- Technical Team Leaders
- Release Managers
- Cloud Engineers
- Site Reliability Engineers
- Descope Teams
- IT Service Management team members

Exploring DevOps

- Defining DevOps
- Why Does DevOps Matter?

Core DevOps Principles

- The Three Ways
- The First Way
- The Theory of Constraints
- The Second Way
- The Third Way
- Chaos Engineering
- Learning Organizations

Key DevOps Practices

- Continuous Delivery
- Site Reliability & Resilience Engineering
- DevSecOps
- ChatOps
- Kanban

Business and Technology Frameworks

- Agile
- ITSM
- Lean
- Safety Culture
- Learning Organizations
- Sociocracy/Holacracy
- Continuous Funding

Culture, Behaviours & Operating Models

- Defining Culture
- Behavioural Models
- Organizational maturity models
- Target Operating Models

Automation & Architecting DevOps Toolchains

- CI/CD
- Cloud
- Microservices/Containers
- DevOps Toolchain



Measurement, Metrics, and Reporting

- The Importance of Metrics
- Technical Metrics
- Business Metrics
- Measuring & Reporting Metrics

Sharing, Shadowing and Evolving

- Collaborative Platforms
- Immersive, Experiential Learning
- DevOps Leadership
- Evolving Change