

## DevOps Foundation (DevOps Institute)

### Overview

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The DevOps Foundation® course provides a baseline understanding of key DevOps terminology to ensure everyone is talking the same language and highlights the benefits of DevOps to support organizational success. This course prepares you for the DevOps Foundation (DOFD)® certification. This course may earn a Credly Badge.

### Prerequisite Comments

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Familiarity with IT terminology and IT related work experience are recommended.

### Target Audience

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The target audience for the DevOps Foundation course includes Management, Operations, Developers, QA and Testing professionals such as:

Individuals involved in IT development

IT operations or IT service management

Individuals who require an understanding of DevOps principles

IT professionals working within, or about to enter, an Agile Service Design Environment

The following IT roles: Automation Architects, Application Developers, Business Analysts, Business Managers, Business Stakeholders, Change Agents, Consultants, DevOps Consultants, DevOps Engineers, Infrastructure Architect, Integration Specialists, IT Directors, IT Managers, IT Operations, IT Team Leaders, Lean Coaches, Network Administrators, Operations Managers, Project Managers, Release Engineers, Software Developers, Software Tester/QA, System Administrators, Systems Engineers, System Integrators, Tool Providers

### Course Objectives

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The learning objectives for DevOps Foundation® include an understanding of:

DevOps objectives and vocabulary

Benefits to the business and IT

Principles and practices including Continuous Integration, Continuous Delivery, testing, security and the Three Ways

DevOps relationship to Agile, Lean and ITSM

Improved workflows, communication and feedback loops

Automation practices including deployment pipelines and DevOps toolchains

Scaling DevOps for the enterprise

Critical success factors and key performance indicators

Real-life examples and results

### Course Outline

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## 1 - Exploring DevOps

Defining DevOps  
Why Does DevOps Matter?

## 2 - Core DevOps Principles

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

## 3 - Key DevOps Practices

Continuous Delivery  
Site Reliability & Resilience Engineering  
DevSecOps  
ChatOps  
Kanban

## 4 - Business and Technology Frameworks

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

## 5 - Culture, Behaviors & Operating Models

Defining Culture  
Behavioral Models  
Organizational maturity models  
Target Operating Models

## 6 - Automation & Architecting DevOps Toolchains

CI/CD  
Cloud  
Containers  
Kubernetes  
DevOps Toolchain

## 7 - Measurement, Metrics, and Reporting

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

## 8 - Sharing, Shadowing and Evolving

Collaborative Platforms  
Immersive, Experiential Learning  
DevOps Leadership  
Evolving Change

## Related Courses, Certifications, Exams

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- DevOps Foundation® Certified
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