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## DevOps Foundation

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### Overview

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.

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### Prerequisite Comments

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

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### Target Audience

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

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### Course Objectives

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

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### Course Outline

#### 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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