

## DOF: DevOps FOUNDATION

Course Code: DOF

Duration: 3 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

### OVERVIEW

As organizations are facing new entrants in their respective markets, they need to stay competitive and release new and updated products on a regular basis. 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.

The course includes a baseline understanding of key DevOps terminologies, the latest thinking, principles, and practices from the DevOps community including real-world case studies from many high performing organizations that engage and inspire learners, leveraging multimedia and interactive exercises that bring the learning experience to life, including the Three Ways as highlighted in the PhoenixProject the latest from the State of DevOps report.

It is designed for a broad audience, enabling those on the business side to obtain an understanding of Kubernetes and Containers while those on the technical side will obtain an understanding as to the business value of DevOps to reduce cost, increase quality and enhance agility to support business objectives in support of digital transformation initiatives.

### SKILLS COVERED

Participants will gain an understanding of this cultural and professional movement that stresses communication, collaboration, integration, and automation to improve the how

of work between software developers and IT operations professionals. On completion of this course, the following learning outcomes will be achieved:

- 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

### WHO SHOULD ATTEND?

The target audience for this course and qualification include Management, Operations, Developers, QA and Testing professionals including:

- 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

### PRE-REQUISITES

There are no prerequisites to attending the DevOps Foundation course or for sitting for the DevOps Foundation certification examination. Familiarity with IT terminology and IT related work experience is advantageous.

## MODULES

### Module 1: Exploring DevOps

- Defining DevOps
- Why Does DevOps Matter?

### Module 2: Core DevOps Principles

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

### Module 3: Key DevOps Practices

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

### Module 4: Business and Technology Frameworks

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

### Module 5: Culture, Behaviors & Operating Models

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

### Module 6: Automation & Architecting DevOps Toolchains

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

### Module 7: Measurement, Metrics, and Reporting

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

### Module 8: Sharing, Shadowing and Evolving

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

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