



# DevOps Institute

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## DevOps Foundation®

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### Examination Requirements

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## DevOps Foundation® Certification

DevOps Foundation is a freestanding certification from DevOps Institute. The purpose of the certification and its associated course is to impart, test and validate knowledge of DevOps basic vocabulary, principles and practices. The vocabulary terms, concepts and practices are documented in the course learner materials. DevOps Foundation is intended to provide individuals with an understanding of basic DevOps concepts and how DevOps may be used to improve communication, collaboration and integration between software developers and IT operations professionals.

### Eligibility for Examination

Although there are no formal prerequisites for the exam, DevOps Institute highly recommends the following to prepare candidates for the exam leading to DevOps Foundation certification:

- It is recommended that candidates complete at least 16 contact hours (instruction and labs) as part of a formal, approved training course delivered by an accredited Education Partner of DevOps Institute

### Examination Administration

The DevOps Foundation examination is accredited, managed and administered under the strict protocols and standards of DevOps Institute.

### Level of Difficulty

The DevOps Foundation certification uses the Bloom Taxonomy of Educational Objectives in the construction of both the learning content and the examination.

- The DevOps Foundation exam contains Bloom 1 questions that test learners' **knowledge** of DevOps concepts and vocabulary terms
- The exam also contains Bloom 2 questions that test learner's **comprehension** of these concepts in context

### Format of the Examination

Candidates must achieve a passing score to gain the DevOps Foundation Certificate.

Exam Type	40 multiple choice questions
Duration	60 minutes
Prerequisites	It is recommended that candidates complete the DevOps Foundation course from an accredited DevOps Institute Education Partner
Supervised	No
Open Book	Yes
Passing Score	65%

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Duration	60 minutes
Prerequisites	It is recommended that candidates complete the DevOps Foundation course from an accredited DevOps Institute Education Partner
Delivery	Web-based
Badge	DevOps Foundation Certified

## Exam Topic Areas and Question Weighting

The DevOps Foundation exam requires knowledge of the topic areas described below.

Topic Area	Description	Max Questions
DOFD – 1 Exploring DevOps	Purpose, objectives, and business value of DevOps	5
DOFD – 2 Core DevOps Principles	The Three Ways	4
DOFD – 3 Key DevOps Practices	Emerging DevOps Practices such as continuous delivery and continuous integration	7
DOFD – 4 Business & Technology Frameworks	The relationship between relevant frameworks and standards and DevOps	7
DOFD – 5 DevOps Values - Culture, Behaviors & Operating Models	Characteristics of a DevOps culture and of culture change	6
DOFD – 6 DevOps Values - Automation & Architecting DevOps Toolchains	The Deployment Pipeline, DevOps toolchains and other automation considerations	5
DOFD – 7 DevOps Values – Measurement, Metrics & Reporting	Common DevOps practices and related processes	2
DOFD – 8 DevOps Values: Sharing, Shadowing and Evolving	Responsibilities of key roles and considerations relative to organizational structure. Getting started - adoption challenges, risks, critical success factors and key performance measures	4

## Concept and Terminology List

The candidate is expected to understand the following DevOps concepts and vocabulary at a Blooms Level 1 and 2:

- Agile Manifesto
- Agile service management
- Agile software development
- Application Programming Interface (API)
- CALMS
- Change failure rate
- Change fatigue
- Change lead time
- ChatOps
- Code commit
- Collaboration and communication
- Collective Body of Knowledge (CBOK)
- Constraint
- DevOps roles
- DevOps toolchain
- Dojo
- employee Net Promoter Score (eNPS)
- Epics
- Flow
- Golden Circle
- High-performing organizations
- Immersion
- Improvement kata
- IT service management
- Kanban
- Kubler-Ross Change Curve
- Lean production
- Lean thinking
- Lean types of Waste (DOWNTIME)
- Mean Time to Repair/Recover (MTTR)
- Microservices
- Open source
- Containers
- Continuous integration
- Continuous delivery
- Continuous deployment
- Continuous testing
- Cultural debt
- Cycle time
- Deployment pipeline
- Deployment frequency
- DevSecOps
- DevOps
- DevOps metrics
- DevOps stakeholders
- DevOps teams
- Organizational culture
- Organizational considerations
- Resilience engineering
- Scaled Agile Framework (SAFe)
- Scrum
- Scrum roles, artifacts and events
- Service
- Shift left
- Simian Army/Chaos Monkey
- Site Reliability Engineering
- Test driven development
- Testing (unit, acceptance, integration)
- The Three Ways
- Theory of Constraints
- Thomas-Kilmann Conflict Modes
- Value stream mapping
- Velocity
- Waste
- Waterfall