# DevOps Institute®: DevSecOps Foundation Training

Duration: **2 Day**

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## Overview

As organizations accelerate software delivery and deploy code more frequently than ever before, security vulnerabilities and cyber threats continue to grow at the same pace. Modern enterprises can no longer treat security as a separate activity performed at the end of the development cycle. Instead, security must become an integral part of the software delivery process. **DevOps Institute DevSecOps Foundation** provides a comprehensive introduction to the principles, practices, and culture of DevSecOps, enabling organizations to integrate security into every stage of the software development lifecycle.

This course teaches participants the core concepts, terminology, business value, and implementation strategies of **DevSecOps**. Learners will explore how security differs within DevOps environments, how to apply **Security as Code**, and how development, security, and operations teams can collaborate effectively to build secure and resilient systems.

Through real-world case studies, practical exercises, and interactive discussions, participants gain valuable insights into implementing DevSecOps practices within their organizations while preparing for the **DevSecOps Foundation Certification Exam**.

## Prerequisites

Participants are recommended to have:

- Basic understanding of DevOps concepts
- Familiarity with software development lifecycles
- Knowledge of continuous integration and delivery practices
- General awareness of IT operations or cybersecurity concepts

## Who Should Attend

This course is ideal for:

- **DevOps Engineers**
- **Software Engineers**
- **Site Reliability Engineers (SREs)**
- **IT Security Professionals**
- **Compliance Teams**
- **QA Engineers**
- **Release Managers**
- **Scrum Masters**
- **IT Managers**
- **Project Managers**
- **Product Managers**
- Managed Service Provider teams
- Organizations pursuing DevSecOps transformation

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## What You Will Learn

By the end of this course, learners will be able to:

- Explain the purpose and business value of **DevSecOps**.
- Differentiate DevSecOps security practices from traditional security approaches.
- Integrate security into software development lifecycles.
- Apply **Security as Code** principles.
- Promote a security-focused DevOps culture.
- Improve collaboration between development, security, and operations teams.
- Align business security objectives with DevOps practices.
- Reduce organizational risk and improve compliance.
- Prepare for the **DevSecOps Foundation Certification Exam**.

## Outline

### Introduction to DevSecOps

#### What is DevSecOps?

- **DevSecOps Fundamentals**
- Evolution from DevOps to DevSecOps
- Secure software delivery practices
- Business-driven security strategies
- Modern security culture

#### Business Value of DevSecOps

- Operational efficiency
- Risk reduction
- Secure digital transformation
- Faster and safer software delivery
- Enterprise value creation

### DevSecOps Culture and Organizational Transformation

#### Cultural Transformation

- Security-focused collaboration
- Integrating Dev, Sec, and Ops teams
- Organizational change strategies
- Continuous improvement culture

#### Stakeholder Engagement

- Executive sponsorship
- Business alignment
- Security team integration
- Enterprise participation models

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## Core DevSecOps Principles

### Embedding Security into the Process

- Shift Left Security
- Early-stage security validation
- Secure development practices
- Automated security testing

### Security as Code

- **Security as Code**
- Automated security policies
- Codifying security controls
- Continuous security validation

## Data and Security Sciences

### Data Security Fundamentals

- Data protection principles
- Data classification
- Sensitive information management
- Security analytics

### Security Science Concepts

- Threat modeling
- Risk assessment
- Security metrics
- Security decision-making frameworks

## DevSecOps Roles and Responsibilities

### Organizational Structures

- DevOps teams
- Security teams
- Operations teams
- Leadership and governance

### DevSecOps Roles

- Security Champions
- Platform Engineering teams
- Risk and Compliance professionals
- Security Engineers

## Continuous Delivery and Security

### Secure Continuous Delivery

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- Secure CI/CD pipelines
- Pipeline security controls
- Automated security validation
- Secure release management

#### Security Automation

- Automated security workflows
- Security tool integration
- Policy-based security enforcement

### Compliance and Risk Management

#### Compliance Management

- Regulatory compliance
- Audit readiness
- Security standards
- Governance frameworks

#### Risk Reduction Strategies

- Risk assessment methodologies
- Continuous risk monitoring
- Security maturity models

### DevSecOps Implementation Scenarios

#### Real-World Case Studies

- Successful DevSecOps transformations
- Security integration examples
- Enterprise success stories

#### Practical Applications

- Designing security processes
- Team collaboration exercises
- Problem-solving workshops

### DevSecOps Foundation Certification Preparation

- Certification exam overview
- Core concepts review
- Scenario-based learning
- Exam preparation strategies