

## DevSecOps Foundation (DevOps Institute)

### Overview

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In this course, students will gain a solid understanding of the leadership requirements for successful DevOps adoption at both the tactical and strategic levels for those who help design, influence, implement and motivate the cultural transformation. This course prepares you for the DevSecOps Foundation (DSOF) certification.

### Target Audience

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This course is intended for:

Anyone starting or leading a DevOps cultural transformation program  
Anyone interested in modern IT leadership and organizational change approaches  
Business Analysts  
Business Stakeholders  
Consultants  
DevOps tool providers  
IT Operations Managers  
IT Leadership  
Practitioners and change agents  
Project Managers  
Systems Integrators  
Team Leaders, Managers, Directors  
Tool Suppliers

### Course Objectives

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- The Golden Circle
- Understanding organizational culture and organizational change
- Conway's Law and its influence on DevOps and systems thinking
- Strategies for leading cultural transformations
- Evolving silos into flat, team based organizations
- Managing conflict
- Creating feedback loops
- Creating learning environments
- Avoiding change fatigue
- Managing conflict
- Communication and collaboration strategies
- Meaningful metrics
- Resourcing for DevOps
- Demonstrating DevOps ROI
- Critical success factors
- Getting started

### Course Outline

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## 1 - Course Introduction

Course Goals  
Course Agenda

## 2 - Why DevSecOps

Key Terms and Concepts  
Why DevSecOps is important  
3 Ways to Think About DevOps+Security  
Key Principles of DevSecOps

## 3 - Culture and Management

Key Terms and Concepts  
Incentive Model  
Resilience  
Organizational Culture  
Generativity  
Erickson, Westrum, and LaLoux  
Exercise: Influencing Culture

## 4 - Strategic Considerations

Key Terms and Concepts  
How Much Security is Enough?  
Threat Modeling  
Context is Everything  
Risk Management in a High-velocity World  
Exercise: Measuring For Success

## 5 - General Security Considerations

Avoiding the Checkbox Trap  
Basic Security Hygiene  
Architectural Considerations  
Federated Identity  
Log Management

## 6 - IAM: Identity & Access Management

Key Terms and Concepts  
IAM Basic Concepts  
Why IAM is Important  
Implementation Guidance  
Automation Opportunities  
How to Hurt Yourself with IAM  
Exercise: Overcoming IAM Challenges

## 7 - Application Security

Application Security Testing (AST)  
Testing Techniques  
Prioritizing Testing Techniques  
Issue Management Integration  
Threat Modeling  
Leveraging Automation

## 8 - Operational Security

Key Terms and Concepts  
Basic Security Hygiene Practices  
Role of Operations Management  
The Ops Environment  
Exercise: Adding Security to Your CI/CD Pipeline

## 9 - Governance, Risk, Compliance (GRC) and Audit

Key Terms and Concepts  
What is GRC?  
Why Care About GRC?  
Rethinking Policies  
Policy as Code  
Shifting Audit Left  
3 Myths of Segregation of Duties vs. DevOps  
Exercise: Making Policies, Audit and Compliance

## 10 - Logging, Monitoring and Response

Key Terms and Concepts  
Setting Up Log Management  
Incident Response and Forensics  
Threat Intelligence and Information Sharing

## 11 - Course Review

Where We Started  
What We Covered  
Key Reminders of What's Important  
Exercise: Creating a Personal Action Plan

## 12 - Exam Preparations

Exam Requirements, Question Weighting and

### 13 - Terminology List

Sample Exam Review

### Related Courses, Certifications, Exams

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- DevOps Foundation (DevOps Institute)
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