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DevSecOps Foundation℠

VERSION 2

Global Best Practice

For organizations and professionals embedding security, compliance, and resilience into every stage of modern software delivery!

Course Description

PeopleCert

Published by PeopleCert International Limited
Published in Cyprus
Publication printed in Greece or reproduced electronically in Greece

Version 2.2.1 (August 2026)

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DevSecOps Foundation℠ Course Description

Learn the purpose, strategies, concepts, practices, vocabulary, outcomes, and benefits of DevSecOps

Overview

With DevOps, organizations deploy code faster and more often than ever. New security vulnerabilities and risks are accelerating with the evolution of ever more complex distributed systems, and ever more sophisticated, AI-assisted, cyber-attack patterns. Development, operations, business, and security teams value DevSecOps as an integral, strategic security framework. Delivering secure software innovations at the speed of business is essential for any modern organization.

Course topics covered include how DevSecOps provides business value, enhancing your business opportunities, and improving corporate value. The core DevSecOps principles taught support organizational transformation, increase productivity, reduce risk, remove bottlenecks, and optimize resource usage.

This course explains how DevOps security practices differ from other approaches, and provides practical education needed to apply changes to your organization. Participants learn the purpose, benefits, principles, vocabulary, and practices needed to apply DevSecOps. Students learn how DevSecOps roles fit with a DevOps culture and organization. Participants learn how Security as Code (SaC) makes software development and delivery secure and demonstrate compliance with Compliance as Code (CaC).

This course teaches the steps to transform an organizations' people, processes, technologies and governance to successful DevSecOps outcomes. The learning material includes real-world case studies, video presentations, discussion options, and exercises to make the learning experience interactive and lively and add learning value. Real-life scenarios create tangible takeaways participants can leverage upon their return to work.

This course positions learners to pass the DevSecOps Foundation℠ exam.

Course objectives

The **learning objectives** include a practical **understanding** of:

- the purpose, benefits, principles, and vocabulary of DevSecOps
- how DevSecOps security practices differ from other security approaches
- business-driven security strategies and best practices
- understanding and applying data and security practices
- integrating stakeholders into DevSecOps practices
- enhancing communication between Dev, Sec, and Ops teams
- how DevSecOps roles fit with culture and organization.

Audience

The target audience for the DevSecOps Foundation[SM] course are professionals including:

- anyone involved or interested in learning about DevSecOps
- anyone involved in continuous delivery toolchain architectures
- compliance professionals
- business managers
- development and DevOps professionals
- IT security professionals, practitioners, and managers
- maintenance and support staff
- Managed Service Providers (MSPs)
- project and product managers
- quality assurance and test professionals
- release managers
- Scrum masters
- Site Reliability Engineers (SREs)
- software engineers
- testers.

Official Training Materials (OTM) | Learner

- Learner Workbook (excellent post-class reference)
- Sample documents, templates, tools, and techniques
- Access to additional sources of information and communities

Prerequisites

Participants should have baseline knowledge and understanding of common DevOps definitions and principles.

Certification exam

Successfully passing (65%) the 60-minute examination, consisting of 40 multiple-choice questions, leads to the candidate's designation as DevSecOps Foundation℠ certified. The certification is governed and maintained by PeopleCert.

Course outline

- **Module 1: Realizing DevSecOps outcomes**
  - the origins of DevOps
  - the evolution of DevSecOps
  - CALMS values for DevSecOps
  - the Three Ways and DevSecOps
  - other frameworks and DevSecOps
- **Module 2: Defining the Cyberthreat Landscape**
  - What do we protect?
  - Stories
  - What is the Cyber Threat Landscape?
  - What is the threat?
  - Who do we protect from?
  - How do I talk to security?
- **Module 3: Building a responsive DevSecOps model**
  - Why DevSecOps must be responsive
  - DevSecOps key outcomes and measures
  - Responsive DevSecOps models
- **Module 4: Integrating DevSecOps stakeholders**
  - the DevSecOps state of mind and 'good' culture
  - DevSecOps stakeholders, what is at stake?
  - DevSecOps leadership and governance
- **Module 5: Establishing DevSecOps best practices**
  - Foundations of DevSecOps transformation
  - Onboarding practices for stakeholders
  - Building DevSecOps practices and outcomes
  - Focusing on outcomes
- **Module 6: Best practices to get started**
  - Identifying target state and value stream thinking
  - Flow engineering for DevSecOps
  - Engineering feedback into DevSecOps value streams
  - Learning more about DevSecOps value stream engineering
- **Module 7: DevOps pipelines and continuous compliance**
  - Goals of a DevSecOps pipeline
  - Designing DevSecOps pipelines
  - DevSecOps tools
- **Module 8: Learning using outcomes**
  - Security training options and policies
  - Experiential learning and cross-skilling
  - The DevSecOps collective body of knowledge

Notes

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THE LANGUAGE OF COLLABORATION

ESG Commitment

PeopleCert has been accredited by Lloyd's Register, UK (now LRQA), in accordance with ISO 14001 for Environmental Management since 2006. Recognized through numerous awards, we remain committed to ESG leadership and the preservation of our planet.