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DevOps Institute DevSecOps Foundation Training

DevOps Institute Authorized Training · Applied Technology Academy

As companies deploy code faster and more often than ever, new vulnerabilities are also accelerating. When the boss says, “Do more with less”, DevOps practices adds business and security value as an integral, strategic component. Delivering development, security, and operations at the speed of business should be an essential component for any modern enterprise.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Beginner	**2 Days**	**1 year: DevOps**	**$181,505**	**No**

Course Overview

This course explains how DevOps security practices differ from other approaches then delivers the education needed to apply changes to your organization. Participants learn the purpose, benefits, concepts, vocabulary and applications of DevSecOps. Most importantly, students learn how DevSecOps roles fit with a DevOps culture and organization. At the course’s end, participants will understand “security as code” to make security and compliance value consumable as a service.

No course would be complete without practical application and this course teaches the steps to integrate security programs from the developers and operators through the business C-level. Every stakeholder plays a part and the learning material highlights how professionals can use these tools as the primary means of protecting the organization and customer through multiple case studies, video presentations, discussion options, and exercise material to maximize learning value. These real-life scenarios create tangible takeaways participants can leverage upon their return to the home office.

The learning objectives for DevSecOps Foundation include an understanding of:

- The purpose, benefits, concepts, and vocabulary of DevSecOps
- How DevOps security practices differ from other security approaches
- Business-driven security strategies and Best Practices
- Understanding and applying data and security sciences
- Integrating corporate stakeholders into DevSecOps Practices
- Enhancing communication between Dev, Sec, and Ops teams
- How DevSecOps roles fit with a DevOps culture and organization

Course Outline

- **Lesson 1: Realizing DevSecOps Outcomes**
  - Origins of DevOps
  - Evolution of DevSecOps

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  - CALMS
  - The Three Ways
- **Lesson 2: Defining the Cyberthreat Landscape**
  - What is the Cyber Threat Landscape?
  - What is the threat?
  - What do we protect from?
  - What do we protect, and why?
  - How do I talk to security?
- **Lesson 3: Building a Responsive DevSecOps Model**
  - Demonstrate Model
  - Technical, business and human outcomes
  - What's being measured?
  - Gating and thresholding
- **Lesson 4: Integrating DevSecOps Stakeholders**
  - The DevSecOps State of Mind
  - The DevSecOps Stakeholders
  - What's at stake for who?
  - Participating in the DevSecOps model
- **Lesson 5: Establishing DevSecOps Best Practices**
  - Start where you are
  - Integrating people, process and technology and governance
  - DevSecOps operating model
  - Communication practices and boundaries
  - Focusing on outcomes
- **Lesson 6: Best Practices to get Started**
  - The Three Ways
  - Identifying target states
  - Value stream-centric thinking
- **Lesson 7: DevOps Pipelines and Continuous Compliance**
  - The goal of a DevOps pipeline
  - Why continuous compliance is important
  - Archetypes and reference architectures
  - Coordinating DevOps Pipeline construction
  - DevSecOps tool categories, types and examples
- **Lesson 8: Learning Using Outcomes**
  - Security Training Options

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- Training as Policy
- Experiential Learning
- Cross-Skilling
- The DevSecOps Collective Body of Knowledge
- Preparing for the DevSecOps Foundation certification exam

Intended Audience

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

- Anyone involved or interested in learning about DevSecOps strategies and automation
- Anyone involved in Continuous Delivery toolchain architectures
- Compliance Team
- Business managers
- Delivery Staff
- DevOps Engineers
- IT Managers
- IT Security Professionals, Practitioners, and Managers
- Maintenance and support staff
- Managed Service Providers
- Project & Product Managers
- Quality Assurance Teams
- Release Managers
- Scrum Masters
- Site Reliability Engineers
- Software Engineers
- Testers

Prerequisites

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

Follow-On Courses

- DevOps Leader (DOL)
- DevOps Foundation
- Agile Service Manager

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.