PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: DevSecOps Foundation	**Course Duration**: 3.0 Days
Exam: Included	**Exam Type**: Classroom Exam
Qualification: DevSecOps Foundation Certificate	

Course Syllabus

Our DevSecOps Foundation training course contains the following Modules:

Module 1: Agile/DevOps Foundation Review

- What is Agile/DevOps?
- DevOps Goals
- DevOps Values
- DevOps Stakeholders

Module 2: Why SecDevOps?

- Key terms and concepts
- Why DevSecOps is important
- 3 Ways to think about DevOps + Security
- Key principles of DevSecOps
- DevSecOps security-first philosophy
- SecDevOps evolution from DevSecOps

Module 3: Culture and Management

- Key terms and concepts
- How much security is enough?
- Threat modelling
- Context is everything
- High-velocity risk management
- Team security profiling

Module 4: General Security Considerations

- Avoiding the checkbox trap
- Basic security hygiene
- Architectural considerations
- Federated identity
- Log management

Module 5: Feature and Security Workflow

- Configuration management
- Centralised workflow

- Workflow branch classifications
- Pre- and post-commit
- Deployment and release orchestration

Module 6: Acquisition Lifecycle Security

- Needs Phase requirements vs. security
- Acquisition Review Board (ARB)
- Analyse/Select Phase measurement metrics
- Obtain phase life cycle
- Planning and scheduling
- Dispose phase concerns

Module 7: Identity and Access Management (IAM)

- Key terms and concepts
- Identity and Access Management (IAM) basic concepts
- Why IAM is important
- Implementation guidance
- Automation opportunities
- How to hurt yourself with IAM

Module 8: Application Security

- Application Security Testing (AST)
- Testing Techniques
- Prioritising Testing Techniques
- Issue Management Integration
- Threat Monitoring
- Leveraging Automation
- Secure coding and Open Web Application Security Project (OWASP) compliance

Module 9: Operational Security

- Key terms and concepts
- Basic security hygiene practices
- Role of operations management
- The Ops environment
- Embracing fail-early, fail-first
- Security infrastructure as code

Module 10: Cross-Team Security

- Key terms and concepts
- Establishing trust
- Promoting shared responsibility
- Team verification techniques
- Embedded point-of-contact
- Security, development, and operations sprints

Module 11: Roles and Responsibilities

- SecDevOps Coach

- Product Owner Expanded Responsibilities
- Programme and Project Manager
- Information System Security Officer (ISSO)
- SecDevOps Engineer
- Site Reliability Engineer

Module 12: Governance, Risk, Compliance (GRC) Audit

- Key terms and concepts
- What is GRC?
- Why care about GRC?
- Rethinking policies
- Policy as code
- Shifting audit left
- Three myths of segregation of duties vs. DevOps

Module 13: Logging, Monitoring, and Response

- Key terms and concepts
- Setting up log management
- Incident response and forensics
- Threat intelligence and information sharing

Module 14: Continual Improvement

- Retrospectives
- Continuous learning
- Open Collaboration (including security)
- Shared intelligence

Module 15: Review and Summary

- Exam review
- Key course concepts
- Next steps

Course Overview

Our three-day DevSecOps Foundation training course will provide you with the means in taking a modern approach that combines the principles and practices of DevOps with a strong focus on integrating security throughout the software development lifecycle aiming to break down the traditional silos between development, operations, and security teams and foster a collaborative and proactive approach to security.

Course Learning Outcomes

The Outcomes for our DevSecOps Foundation training course are:

- Prepare for the DevOps Institute DevSecOps Foundation Certification (SDOF) with the world's first accredited DevSecOps certification course
- Trace the history and evolution of DevSecOps
- Integrate DevSecOps roles with a DevOps culture and organisation
- Continue learning and face new challenges with after-course one-on-one instructor coaching

Audience

Our DevSecOps Foundation training course will appeal to the following:

- Security Experts
- Software Developers
- Operations Specialists
- DevOps Engineers
- IT Managers and Leaders
- Quality Assurance/Testers
- Compliance and Risk Management Professionals

Entry-Level Requirements

Our DevSecOps Foundation training course has no prerequisites.

Recommended Reading

Our DevSecOps Foundation training course has no recommended reading.

What's Included

Our DevSecOps Foundation training course includes the following:

- Pre-reading
- Course Manual
- Quizzes
- Exercises

Exam Information

DevSecOps Foundation Examination:

- Exam Format: Multiple Choice
- Duration: 60 Minutes
- Questions: 40
- Passing score: 65%
- It is highly recommended that candidates attend our DevSecOps Foundation training course with a DevOps Institute-accredited Education Partner to prepare for the certification exam.
- The certification exam is administered through DOI.

What's Next

You might enjoy our one-day Certified Cyber Security Foundation training course.

Our Certified Cyber Security Foundation training course provides a comprehensive introduction to current cyber security threats and the measures required to mitigate the risks associated with cyber attacks.

Additional Information

Our DevSecOps Foundation training course provides individuals with a comprehensive understanding of the principles, practices, and tools associated with integrating security into the DevOps process. Benefits of such training includes several benefits including but not limited to:

- **Knowledge and Awareness**: DevSecOps Foundation training equips individuals with a solid foundation of knowledge about the key concepts, principles, and best practices of DevSecOps.
- **Skill Development**: The training program helps individuals develop the necessary skills to implement security practices within a DevOps environment.
- **Improved Collaboration and Communication**: DevSecOps Foundation training emphasizes the importance of collaboration and communication between development, operations, and security teams.
- **Enhanced Job Prospects**: With the increasing demand for professionals who understand both security and DevOps, DevSecOps Foundation training can significantly enhance job prospects.
- **Risk Reduction**: By implementing the security practices learned in DevSecOps Foundation training, organizations can significantly reduce security risks.
- **Alignment with Industry Standards**: DevSecOps Foundation training often aligns with industry standards and frameworks such as NIST, OWASP, and ISO/IEC 27001.
- **Professional Growth and Advancement**: DevSecOps Foundation training provides individuals with a valuable credential that demonstrates their expertise in integrating security practices into DevOps.