

Day - 1

- **Introduction to DevSecOps**

- **Morning Session:**

- Introduction to DevSecOps: Principles and Benefits
- Understanding the DevOps Pipeline
- Overview of Security Challenges in DevOps Environments

- **Afternoon Session:**

- Secure Software Development Life Cycle (SDLC)
- Integrating Security into CI/CD Pipelines
- Hands-on Lab: Setting up a DevSecOps Environment

Day - 2

- **Secure Coding Practices**

- **Morning Session:**

- Secure Coding Principles and Best Practices
- Common Security Vulnerabilities in Software Applications
- Mitigating Security Risks in Code

- **Afternoon Session:**

- Secure Software Development Life Cycle (SDLC)
- Integrating Security into CI/CD Pipelines
- Hands-on Lab: Setting up a DevSecOps Environment

Day - 3

- **Infrastructure as Code (IaC) Security**

- **Morning Session:**

- Introduction to Infrastructure as Code (IaC)
- Security Considerations for IaC Templates
- Implementing Security Controls in IaC

- **Afternoon Session:**

- Container Security Best Practices
- Kubernetes Security
- Hands-on Lab: Securing Infrastructure as Code and Containers

Day - 4

- **Security Testing and Automation**

- **Morning Session:**

- Security Testing Strategies: SAST, DAST, IAST, and RASP
- Automating Security Testing in CI/CD Pipelines
- Security Test Orchestration Tools

- **Afternoon Session:**

- Continuous Vulnerability Management
- Security Monitoring and Incident Response
- Hands-on Lab: Implementing Security Testing and Automation

- **Compliance, Governance, and Exam Preparation**

- **Morning Session:**

- Regulatory Compliance Requirements (e.g., GDPR, HIPAA, PCI DSS)
- Governance Frameworks for DevSecOps
- Exam Preparation Strategies

- **Afternoon Session:**

- Review of Key Concepts and Topics
- Practice Exam and Q&A Session
- Certification Exam (if applicable) or Closing Remarks and Certificates Distribution