



DSE – DevSecOps Essentials (e-Learning)

EC-Council

Com certificação

- **Nível:**
 - **Duração:** 7h
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Sobre o curso

[Spring Deals: Cursos EC-Council com 5% de desconto até 30 de abril](#)

The **DevSecOps Essentials (DSE)** covers fundamental skills in DevSecOps, providing key insights into identifying application development risks and securing and testing applications within on-premises, cloud providers, and infrastructures. No IT/Cybersecurity experience required for this course.

Test your skills with Capstone Project and validate these newly acquired skills in proctored exams. With 7 practical labs, 7+ hours of premium self-paced video training, and 10 modules, it ensures students gain recognition and secure better opportunities for the next logical step after DSE.

Key Features:

- 7 practical lab exercises
- 7+ hours of premium self-paced video training
- 900+ pages of eCourseware
- Capstone Project
- Year-long access to courseware and labs
- Proctored exam voucher with 1-year validity
- Earn a globally recognized EC-Council certification
- Learn secure application development with easy-to-follow modules. Increase your value in the job market

What skills you'll learn

- Learn the fundamentals of application development.
- Gain knowledge of application security.
- Understand DevOps and DevSecOps.
- Explore the DevSecOps toolchain.
- Gain insights into DevSecOps and CI/CD pipelines.
- Learn about implementing and using tools for DevSecOps in CI/CD pipelines.

Destinatários

Who is D|SE for?

- High School/College/University students
 - Teams and organizations
 - Career starters
 - Working professionals
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Pré-requisitos

No prior cybersecurity knowledge or IT work experience required.

Metodologia

Training Details: Self-paced in-demand lecture videos led by world-class instructors and hands-on labs.

Exam Details:

- Exam Code: 112-55
 - Number of Questions: 75
 - Duration: 2 hours
 - Test Format: Multiple Choice
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Programa

- Application Development Concepts
- Application Security Fundamentals
- Introduction to DevOps
- Introduction to DevSecOps
- Introduction to DevSecOps Management Tools
- Introduction to DevSecOps Code and CI/CD Tools
- Introduction to DevSecOps Pipelines
- Introduction to DevSecOps CI/CD Testing and Assessments
- Implementing DevSecOps Testing & Threat Modeling
- Implementing DevSecOps Monitoring Feedback

Application Development Concepts

- History of Application Development
- Evolution of Application Development Methodologies

- Introduction to Application Architectures
- Introduction to the Application Development Lifecycle
- Application Testing and Quality Assurance
- Application Monitoring, Maintenance, and Support

Application Security Fundamentals

- What is Secure Application Development
- Need for Application Security
- Common Application Security Risks and Threats
- OWASP Top 10
- Application Security Techniques
- Secure Design Principles
- Threat Modeling
- Secure Coding
- Secure Code Review
- SAST and DAST Testing
- Secure Configurations
- Educating Developers
- Role of Risk Management in Secure Development
- Project Management Role in Secure Application Development

Introduction to DevOps

- Introduction to DevOps
- DevOps Principles
- DevOps Pipelines
- DevOps and Project Management

Introduction to DevSecOps

- Understanding DevSecOps
- DevOps vs. DevSecOps
- DevSecOps Principles
- DevSecOps Culture
- Shift-Left Security
- DevSecOps Pipelines
- Pillars of DevSecOps
- DevSecOps Benefits and Challenges

Introduction to DevSecOps Management Tools

- Project Management Tools
- Integrated Development Environment (IDE) Tools
- Source-code Management Tools
- Build Tools
- Continuous Testing Tools

Introduction to DevSecOps Code and CI/CD Tools

- Continuous Integration Tools
- Infrastructure as Code Tools
- Configuration Management Tools
- Continuous Monitoring Tools

Introduction to DevSecOps Pipelines

- Role of DevSecOps in the CI/CD Pipeline
- DevSecOps Tools
- Embracing the DevSecOps Lifecycle
- DevSecOps Ecosystem
- Key Elements of the DevSecOps Pipeline
- Integrating Security into the DevOps Pipeline

Introduction to DevSecOps CI/CD Testing and Assessments

- Implementing Security into the CI/CD Pipeline and Security Controls
- Continuous Security in DevSecOps with Security as Code
- Continuous Application Testing for CI/CD Pipeline Security
- Application Assessments and Penetration Testing

Implementing DevSecOps Testing & Threat Modeling

- Integrating Security Threat Modeling in Plan Stage
- Integrating Secure Coding in Code Stage
- Integrating SAST, DAST, and IAST in Build and Test Stage
- Integrating RASP and VAPT in Release and Deploy Stage

Implementing DevSecOps Monitoring Feedback

- Implementing Infrastructure as Code (IaC)
- Integrating Configuration Orchestration
- Integrating Security in Operate and Monitor Stage
- Integrating Compliance as Code (CaC)
- Integrating Logging, Monitoring, and Alerting
- Integrating Continuous Feedback Loop