EC-Council DevSecOps Essentials (DSE)

Category: Networking & Security | **Vendor:** EC-Council

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The DevSecOps Essentials program will provide you with the foundation knowledge and essential aspects of secure application development, or DevSecOps. In this course, you will gather key insights into identifying application development risk and securing and testing applications within on-premises, cloud providers, and hybrid infrastructures. Put your newly acquired abilities to the test in an exhilarating Capstone project to develop the hands-on proficiencies essential for success in your cyber professional role. After completing this program, you will be prepared to move toward a career in secure application development.

About This Course

The DevSecOps Essentials program will provide you with the foundation knowledge and essential aspects of secure application development, or DevSecOps. In this course, you will gather key insights into identifying application development risk and securing and testing applications within on-premises, cloud providers, and hybrid infrastructures. Put your newly acquired abilities to the test in an exhilarating Capstone project to develop the hands-on proficiencies essential for success in your cyber professional role. After completing this program, you will be prepared to move toward a career in secure application development.

Who Should Attend

- School students, graduates, professionals, career starters and changers, IT / Technology / Cybersecurity teams with little or no work experience.
- Anyone who wants to start a career in cybersecurity, application security, and development and is interested in cloud technology.
- Any professional involved in developing, testing, and deploying applications to production environments, including on-premises, public cloud, and hybrid environments.
- This program is also beneficial for application developers, risk managers, project managers, application administrators, administrators, engineers, and architects.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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.

Detailed Course Outline

Module 1: 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

Module 2: 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

Module 3: Introduction to DevOps

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

Module 4: Introduction to DevSecOps

- Understanding DevSecOps
- DevOps vs. DevSecOps
- DevSecOps Principles
- DevSecOps Culture

Module 5: Introduction to DevSecOps Management Tools

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

Module 6: Introduction to DevSecOps Code and CI/CD Tools

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

Module 7: 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

Module 8: 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

Module 9: 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

Module 10: 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

Frequently Asked Questions

Q: What delivery options are available for EC-Council DevSecOps Essentials (DSE)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day EC-Council DevSecOps Essentials (DSE) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the EC-Council DevSecOps Essentials (DSE) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for EC-Council DevSecOps Essentials (DSE)?

Yes, we provide corporate training, dedicated training, and closed classes for EC-Council DevSecOps Essentials (DSE). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for EC-Council DevSecOps Essentials (DSE)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your EC-Council DevSecOps Essentials (DSE) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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