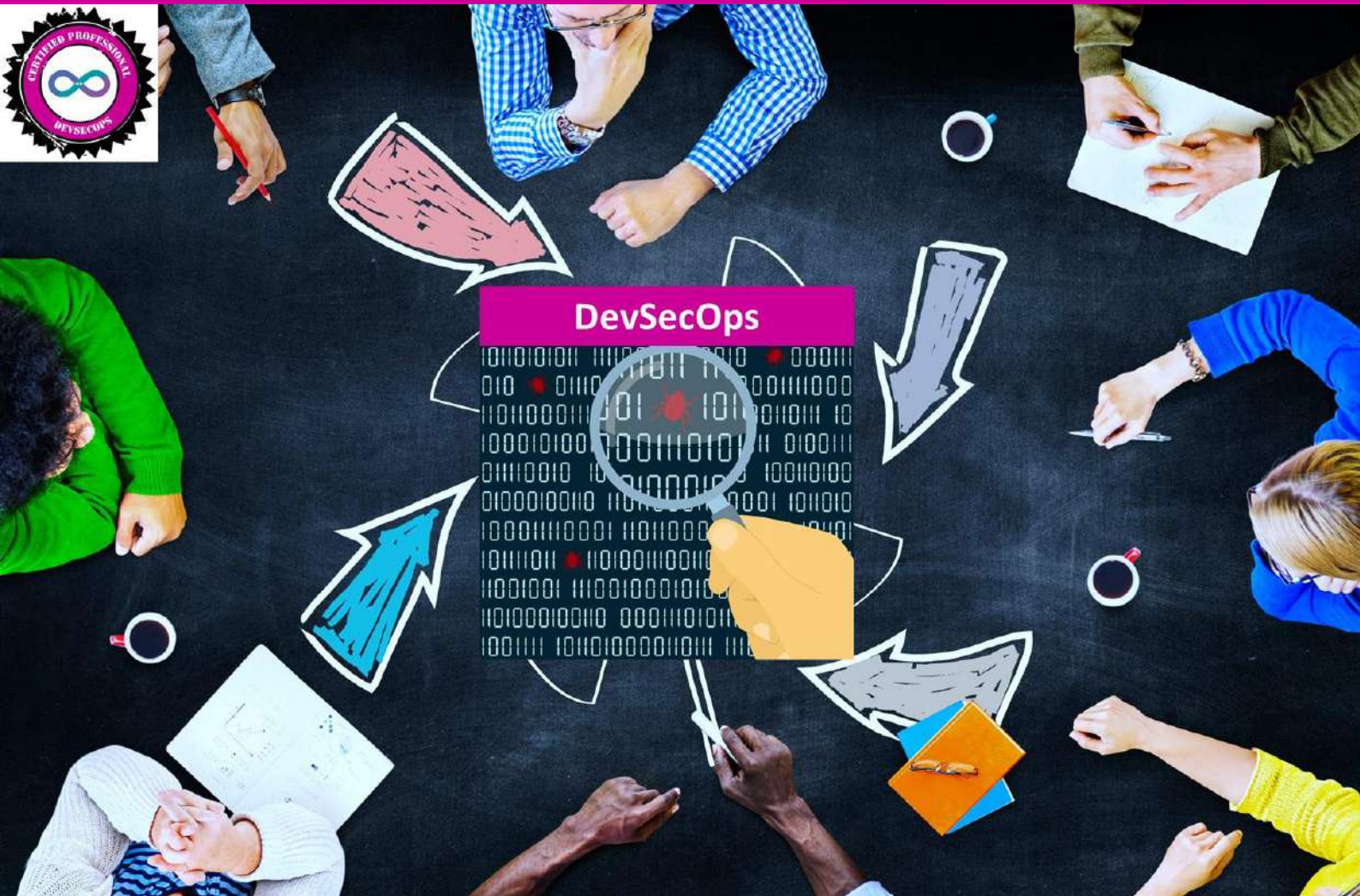


Certified Professional DevSecOps Certification Course



<http://cpdevsecops.devopspalliance.org/>
<http://devopspalliance.org/cp-devsecops.html>



info@devopspalliance.org



[/devopsp](https://www.facebook.com/devopsp)

<http://devopspalliance.org/>



What is CP-DevSecOps course?

The course is designed to practically learn and implement continuous Security in the DevOps lifecycle (**DevSecOps**) using open source tools. The program is relevant for anyone on the DevOps team who would like to learn the practical aspects of Continuous Security

CP- DevSecOps certification exam can be taken by anyone with or without going through the training program covering the learning objectives below. CP-DevSecOps certification exam is the only globally accepted certification exam covering practical assessment for the DevOps Security (**DevSecOps**). CP-DevSecOps learning objective gives the coverage topics for anyone who want to give the exam. Any training covering the CP-DevSecOps Syllabus would be covering the learning objectives in a practical manner.

The training course provided by accredited CP-DSC license trainers is applicable for all roles in the DevOps and Agile World. Knowledge, experience & certification is consciously designed to focus on “practical aspects of DevOps Security” and **not** just on “theory”.

How is CP-DevSecOps useful?

The technology industry expects that it needs 1.8 million cyber-security experts by 2022.

CP-DevSecOps is designed to train software professionals with the concepts of Security testing of web applications using myriad of tools.

The training provided by accredited license trainers is completely hands-on covering installation, creation of security testing scripts, automating scans etc. using the features of “**Tools of Trade**” with ample time given to practice until the concepts are mastered.

This syllabus and hence the training course focus on the most challenging areas for Security testing of web applications in the DevOps scenario using tools like **Arachni, Gauntlt, Gauntlt-Docker, Metasploit, ZAP & Burp**.

Am I Eligible?

Anyone having basic experience in Software Development & Testing can go for this certification. It is recommended that participants understand the basics of Agile and DevOps. This program is focussed on the DevOps Security and will not cover the basics of Agile and DevOps.

What is the Training and Certification Exam structure?

CP-DevSecOps is designed specifically for corporates and working professionals alike. If you are a corporate you can opt for either **4 half days** course or **2 full days** course followed by an examination. **Certification Examination can be taken within 15 working days of the completion of the training.**

CP-DevSecOps certification exam has two parts. A theory exam which is of 1 hour duration and is conducted through online multiple choice question pattern. The theory exam is of 40 marks with no negative marking. The practical exam is taken immediately after the theory exam and is of 2-hour duration. The practical exam is case study based and follows the pattern taught in the program.

Table of Contents

What is CP-DevSecOps course?	2
How is CP-DevSecOps useful?.....	2
Am I Eligible?.....	2
What is the Training and Certification Exam structure?.....	2
1. Security Practice - Background (Day 1 - 60 minutes)	4
1.1. History of DevSecOps (15 mins).....	4
1.2. Rugged Manifesto (15 mins)	4
1.3 OWASP Top 10 (15 mins)	4
1.4 Web Penetration Testing (15 mins)	4
2. BurpSuite (Day 1 - 120 minutes)	4
3. Gauntlt with Docker (Day 1 - 120 minutes)	4
4. Arachni (Day 1 - 120 minutes)	5
5. ZAP (Zed Attack Proxy) (Day 2 - 60 minutes)	5
6. Security Testing in CI CD (Day 2 - 90 Minutes)	5
6.1 Concept of Continuous Integration (45 minutes)	5
6.2. Jenkins/Docker (45 minutes)	5
7 Practical Security Automation Testing (Day 2 - Exercises - 360 minutes)	5
8 How do I enroll myself?	5

1. Security Practice - Background (Day 1 - 60 minutes)

1.1. History of DevSecOps (15 mins)

The participant learns about the history of the security practice, its evolution and the need for it in the new DevOps world. We will talk about automating security testing as well.

1.2. Rugged Manifesto (15 mins)

“Rugged” describes software development organizations that have a culture of rapidly evolving their ability to create available, survivable, defensible, secure, and resilient software

1.3 OWASP Top 10 (15 mins)

We will talk about the **Open Web Application Security Project** and the top 10 threat list and talk about threats like **Cross Site Scripting (XSS)**, **Request Forgery**, **SQL Injection (SQLi)** etc.

1.4 Web Penetration Testing (15 mins)

This topic will cover basics of web penetration testing including why it is important. We will also talk about “**Shift Left Security**” as a concept.

2. BurpSuite (Day 1 - 120 minutes)

- Understand how HTTP communication works
- Basic knowledge of Web vulnerabilities
- Target Module
- Proxy module
- Spider Module
- Repeater Module
- Sequencer & Scanner Module
- Decoder Module
- Intruder & Comparer Module
- Launch a Brute-Forcing attack
- Launch a XSS attack
- Launch a SQLi attack
- Hands on Practice session

3. Gauntlt with Docker (Day 1 - 120 minutes)

- Be Mean to Your Code
- Installing Gauntlt using Docker
- Launch various attacks
- Automating a XSS attack
- Automating a SQLi attack
- Automating a fuzzer
- Automating network tests
- Hands on Practice session

4. Arachni (Day 1 - 120 minutes)

- Crawl Coverage
- Vulnerability Detection
- Using CLI
- Using WebUI
- Hands On Practice session

5. ZAP (Zed Attack Proxy) (Day 2 - 60 minutes)

- Standalone ZAP
- Installing with Jenkins
- Enabling ZAP in your CI/CD pipeline
- Hands on Practice session

6. Security Testing in CI CD (Day 2 - 90 Minutes)

6.1 Concept of Continuous Integration (45 minutes)

- Learn about the concept of Automating the Automation
- Learn about the Continuous Integration practice and enabling security tests in your pipeline

6.2. Jenkins/Docker (45 minutes)

- Learn to prepare Jenkins+ Docker to run security tests
- Learn various triggering events for the security tests
- Creating a report and auditing a report.

7 Practical Security Automation Testing (Day 2 - Exercises - 360 minutes)

- Practice all Security Test concepts throughout the course using various practical case studies.
- Practical Exercises post completion of the program
- Bonus - Team Practice Sessions with “Capture the Flag” event using your security testing skills in an online game.

8 How do I enroll myself?

You can enroll by following the information on these URL's.

<http://cpdevsecops.devopsppalliance.org/>

<http://devopsppalliance.org/cp-devsecops.html>

If you are interested in getting a corporate program done at your location please do get in touch with us on ATASupport@AgileTestingAlliance.org