INFOSEC Boot Camps™

CERTIFICATION TRAINING

Get live, expert instruction from anywhere.

Secure Coding for Java Boot Camp

Learn how to develop Secure Java applications. This boot camp is designed for developers and designers of Java applications that require effective, real-world secure programming skills they can implement immediately at the workplace.

Course description

This comprehensive three-day Secure Coding for Java Boot Camp is designed to educate professional programmers on the skills necessary to develop and deploy secure applications. You will learn about potential security issues through concrete, hands-on examples of vulnerable code.

You'll learn which poor programming practices lead to vulnerable code, how to code securely and how to maintain secure development practices throughout the SDLC. You will sharpen skills and gain experience in applying secure design and implementation principles through demonstrations of building, testing and securing real-world applications. You will be given the opportunity to participate in securing and testing applications through a progression of "challenge scenarios" alternating assignments as "attackers" and "defenders" of applications.

Who should attend

» Java application developers
» Managers, architects and technologists involved in deploying Java applications
» Anyone interested in learning more about secure Java coding

Boot camp at a glance

What you'll learn

✓ Common web application exposures and attacks
✓ Static analysis techniques to quickly find flaws in your code
✓ How to identify threats early in the development lifecycle

Delivery methods

✓ Online
✓ Team onsite

Training duration

✓ Immediate access to Infosec Skills
✓ 3-day boot camp
✓ 90-days extended access to all boot camp materials

The hands-on cybersecurity training platform that moves as fast as you do

Infosec Skills boot camps are engineered to match the way today's cybersecurity professionals prefer to learn. In addition to days of live training from an experienced pro, you'll get unlimited access to 100s of additional hands-on cybersecurity courses and cyber ranges to help you advance your skills before, during and after your boot camp. Your Infosec Skills access extends 90 days past your boot camp, so you can take additional time to prepare for your exam, or get a head start on your next certification goal.

Start training immediately

Prepare for your boot camp with immediate access to the Infosec Skills on-demand training library.

Learn by doing in the cyber range

Put what you've learned into practice with 100s of browser-based labs and hands-on projects.

Get unlimited custom practice exams

Uncover knowledge gaps with unlimited practice exams attempts and skill assessments.

700+ IT and security courses

Earn CPEs and build new skills with 100s of additional training courses.

What's included

- » Three days of live, expert Secure Coding for Java training
- » 100% Satisfaction Guarantee
- » Free 90-day Infosec Skills subscription (access to 1,400+ additional courses and labs)
- » 90-day extended access to all boot camp video replays and materials
- » Hands-on cyber ranges and labs
- » Knowledge Transfer Guarantee

Prerequisites

Roughly 12-24 months of experience developing Java apps is recommended. You should have an understanding of web applications, web programming concepts and experience building web applications using the Java Framework. A basic understanding of IT security principles is recommended but not required.

What you'll learn

You'll learn how poor security practices leave applications open to attack and how to implement the necessary tools, techniques and best practices to write code in a secure manner. This boot camp will help develop your knowledge and skills around:

» Common web application exposures and attacks (including those in the OWASP Top Ten)
» Securely using the JEE APIs
» Static analysis techniques that can help you quickly find flaws in your code
» Input validation defenses that can be used to defend against common application vulnerabilities
» Techniques to identify possible application threats early in the Software Development Lifecycle

Regularly updated training

Black hat hackers are always changing their tactics to get one step ahead of the good guys. We update our course materials regularly to ensure you learn about the latest Java coding threats — and how to write secure code to prevent those threats.

Skill up and get certified, guaranteed

100% Satisfaction Guarantee

If you're not 100% satisfied with your training at the end of the first day, you may withdraw and enroll in a different online or in-person course.

Knowledge Transfer Guarantee

If an employee leaves within three months of obtaining certification, Infosec will train a different employee for free for up to one year.

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What our students are saying

I really appreciate that our instructor was extremely knowledgeable and was able to provide the information in a way that it could be understood. He also provided valuable test-taking strategies that I know not only helped me with this exam, but will help in all exams I take in the future.

Michelle Jemmott
Pentagon

Excellent! Our instructor had a vast background and related the materials to real life. Much better than just teaching the materials to pass an exam ... but he did that as well. He went out of his way in class. The extra materials really benefited us when we returned to our real jobs! Great experience!

John Peck
EPA

Very impressed with Infosec. My instructor did a great job delivering the information strategically and in a way for all to understand. I would definitely take another class/certification prep course.

Sylvia Swinson
Texeltek

The instructor was able to take material that prior to the class had made no sense, and explained it in real-world scenarios that were able to be understood.

Erik Heiss
United States Air Force

The course was extremely helpful and provided exactly what we needed to know in order to successfully navigate the exam. Without this I am not confident I would have passed.

Robert Caldwell
Salient Federal Solutions

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Secure Coding for Java details

Our instructors give you 100% of their time and dedication to ensure that your time is well spent. You receive an immersive experience with no distractions!

Before your boot camp

Start learning now. You'll get immediate access to all the content in Infosec Skills, including an in-depth boot camp prep course, the moment you enroll. Prepare for your live boot camp, uncover your knowledge gaps and maximize your training experience.

During your boot camp

»   Input validation and encoding
»   Input driven attacks
»   Canonicalization problems
»   Output encoding
»   J2EE filters
»   Validation and encoding with frameworks (Struts, Spring, etc)
»   Authentication, authorization and session management
»   Parameter manipulation
»   Java authentication and authorization service (JAAS)
»   Servlet and EJB container-based security
»   Servlet and EJB component/tier-level security
»   Password security
»   Protecting user sessions and tokens
»   Common cryptography pitfalls
»   Using Java Cryptography Architecture (JCA/JCE) and third-party APIs (Jasypt, Java DPAPI, etc)
»   Securing communications with Java Secure Socket Extension (JSSE)
»   Error handling and logging

»   Web application environment and components
»   Attacking via error messages
»   Secure logging and error handling
»   FindBugs
»   Integrating code review into the SDLC
»   Securing applications with Java 2
»   Platform security
»   Web services and Java RMI
»   Overview of key web services technologies (WSDL, SOAP, AJAX, etc)
»   Web service attacks and securing
»   RMI attacks and securing
»   Application threat modeling
»   Application decomposition
»   Identifying attacks, vulnerabilities and countermeasures
»   Threat modeling tools
»   Using static analysis to find security issues such as cross site scripting (XSS), cross site request forgery (CSRF), SQL injection, HTTP response splitting, parameter manipulation, authentication and authorization, session management, error handling
»   Manual code review
»   Using static analysis tools

After your boot camp

Your Infosec Skills access extends 90 days past your boot camp, so you can take additional time to prepare for your exam, get a head start on your next certification goal or start earning CPEs.

About Infosec

Infosec's mission is to put people at the center of cybersecurity. We help IT and security professionals advance their careers with skills development and certifications while empowering all employees with security awareness and phishing training to stay cyber-safe at work and home. Learn more at infosecinstitute.com.

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