Principles in Secure Web Application Development

Web application attacks are constant and relentless. This full-day interactive workshop will arm your web development team with up-to-date application security knowledge. In addition, this training can satisfy annual PCI DSS compliance requirements.

Unlike other courses, our workshop not only provides a foundational understanding of secure coding techniques, but it also provides a practical attack-demonstration. Your team will get to see first-hand how practical attacks are masterminded, and see the common tools used to carry them out.

Our unique preparation for your workshop includes dedicated research on a web application that you nominate. A Sense of Security ethical hacker will prepare in advance a custom attack demonstration highly-relevant to your team. Witnessing the real-world tactics, techniques, and procedures used by an attacker is an eye-opener, and a game changer for your team.

KEY BENEFITS

- **Understand your attacker** – see first-hand the tools and tactics likely to be used by real-world attackers to find vulnerabilities in your web application.

- **Increase development efficiency** – learn how to prevent software engineering defects as early as possible, avoiding unnecessary re-work and endless   bug tickets.

- **Boost application quality** – discover how web application security testing works, and understand the value in unit testing and other software testing practices.

- **Improve infrastructure security** - invite your operations team who may also benefit from understanding the attack vectors, and secure their environment configurations.

- **Quick Reference Guide** – each attendee receives their own laminated security quick reference guide, outlining core areas of focus with checklists.

- **Ask the Experts** – our workshops incorporate dedicated question & answer time so your team can address nagging questions that make the biggest difference.

WHO CONDUCTS THE TRAINING?

Your assigned trainer/instructor will be a senior member of Sense of Security's Research and Technical Assurance Practice – **and not one, but two trainers.** Our Trainers possess an advanced knowledge of web application security from diverse backgrounds and are actively involved in the application security community.

WHO SHOULD ATTEND THIS WORKSHOP?

The Principles in Secure Web Application Development workshop has been designed for software developers and engineers and contains advanced technical concepts.
We recommend also inviting operations team leads, or network and system administrators, as they'll see the bigger picture, and learn how to better secure your web infrastructure.

HOW IS THIS WORKSHOP DELIVERED?

This workshop is provided as instructor led content at your office, or a venue of your choosing. Each workshop is limited to a maximum of 10 attendees and is conducted over one full day. Other arrangements can be made by prior agreement.

Sense of **Security** ®

WHAT INFORMATION DOES THIS WORKSHOP INCLUDE?

The workshop includes best practice security programming methodologies at a conceptual level (programming language agnostic). We discuss your requirements beforehand, and include language specific examples relevant to your environment, and devise an attack demonstration.

Our continual research and development of this workshop includes best practice security including OWASP Top 10, CWE/SANS Top 25 and CERT Coding Standards. As a PCI QSA company, Sense of Security also ensures that PCI compliance requirements are met.

The workshop covers (at a minimum) the following common attack methods and preventative measures:

Common Attack Methods

- Cross Site Scripting
- SQL Injection
- Arbitrary Code Execution
- Access Control Bypass
- Cross Site Request Forgery
- Authentication & Session Attacks
- Attacks against Data in Transit
- Parameter Manipulation
- XML & Web Service Attacks

Preventative Measures

- Data Validation
- Authentication & Authorisation
- Library of Code
- Session Management
- Error Handling
- Secure Testing Techniques used throughout the SDLC

WHY CHOOSE SENSE OF SECURITY?

Security is our core business — it's all we do. Sense of Security has 15 years of extensive knowledge of the technical, commercial, and regulatory aspects of IT security.

Experience and focus — our consultants are experienced security specialists with a business focus, creating security solutions that mitigate risk and maximise results.

Trusted advisors — major names in the Banking & Finance, Insurance, Healthcare, Retail, Service Provider sectors as well as Resources, Utilities & Telecommunications rely on Sense of Security. We also conduct business with Local, State and Federal governments.

> "Yes, it was great!"
>
> Mark J., Shine Solutions

> "The developers were all very happy to get lots of "lightbulb" moments"
>
> Mark P., Consolidated Travel

> "Well prepared, well delivered, and typical of the professionalism with which SoS operates"
>
> Lucian B., MIPS