



education overview  
application security education - 2012

**computer based training**

 **Appsecure**  
strategy. education. research.

## The Appsecure Edge.....

We bring an uncommon set of perspectives to our education programs as we understand how developers build technology, how organisations use it and how attackers attack it. This knowledge allows our education programs to be tailored to the specific needs of your company.

- The depth and breadth of our security knowledge and experience is unmatched among training companies. Security is not a one-size-fits all and we are uniquely positioned to understand what security means to your organization.
- We speak the language—a few in fact! development, IT, security, lines of business—they all speak a different language and come to security with different perspectives, biases and (sometimes) misconceptions. We are fluent in the language—and the culture— of each of these groups, making us ideal translators in organization wide conversations about security and education within your company.
- We are adaptive, flexible and client focused. Our modular curriculum offers flexibility and we know how to get education programs up and running quickly.
- The Appsecure team has provided education for hundreds of organisations and thousands of developers, qa testers and business managers. Not only do we invest in quality training programs, we assist organisations in implementing short to long term education strategies.

*Appsecure has partnered with industry leading education provider safelight security. Safelight provides a number of high-quality computer based training programs for developers, information technology team members and managers, as well as general staff for privacy and security 101.*

## computer based training

By identifying and resolving vulnerabilities early in the software development lifecycle, your team can substantially—and cost-effectively—reduce information risk. Only recently have companies begun to meaningfully integrate security into the software development lifecycle. Secure coding has been greatly advanced by the adoption of formal software security assurance methodologies. Essential to the successful implementation of these methodologies is role-specific training for all development staff — whether they are architects, developers, QA testers or managers.

Our courses for development teams begin with an overview of fundamental secure coding principles. Students learn the many ways in which vulnerabilities in software code may be exploited by attackers and are shown the value of secure development. Building on this understanding of the risks inherent in software development, students learn solid architecture, design, testing and implementation principles. From there, they explore ways to root out security issues within existing systems and how to effectively respond to evolving security threats.

Appsecure in partnership with Safelight offer a number computer based training programs for General, Development and IT Operations Staff. These courses are cost effective for business and can be hosted on Internet connected services, or provided directly to a corporate intranet environment.

### COMPUTER BASED TRAINING - COURSES AVAILABLE

#### GENERAL ORGANISATION STAFF

Information Security Awareness  
Information Privacy Awareness

#### DEVELOPMENT STAFF

Application Security Fundamentals  
Secure Java Coding  
Secure Microsoft .NET Coding  
Secure Web Coding  
Secure C/C++ Coding

#### IT OPERATIONS STAFF

Security 101 for Systems Administrators



Security is every employee's responsibility. There is not a person in your organization who could not do something—however unwittingly to expose sensitive information. General staff across marketing, human resources, sales, operations, legal, finance and customer service handle personally identifiable information, payment information, protected health information, intellectual property, confidential company plans and financials. Many of these people carry this sensitive information into the world outside the office on laptops, mobile phones, USB drives and paper—just in the course of doing their work every day.

Security rests in all of these employees' hands in different ways. A mis step by any of one of them could create an opportunity for a motivated attacker. A shift in the way employees think about and protect sensitive information can be a company's best protection. Safelight's on-demand and instructor-led courses for general staff are designed to reduce your organization's information risk by increasing security awareness among your business staff.

### Minimum System Requirements

- Screen Resolution: 1280 x 720
- Operating Systems (Mac OSX or Windows)
- Web Browser Support
  - Internet Explorer 6 SP3 or above
  - Mozilla Firefox 3.0 or above
  - Mac: Safari 4.0 or above
- Adobe Flash Player, preferably version 10 or higher. Courses work with version 8 or 9.
- Audio is highly recommended however a user can follow the on-screen transcript

All of the CBT courses are SCORM 1.2 compliant. Courses can normally be integrated into most learning management systems, or can be delivered as an on-demand service using the online education portal.

Courses can be customized to meet the specific requirements of each organisation.

## general staff

### (CBT-GS-ISA) INFORMATION SECURITY AWARENESS

This introductory course is designed for all general staff in roles such as human resources, legal, marketing, finance, sales, operations and customer service. This course equips employees to recognize the value of different types of information, to understand the scope, nature and origin of the diverse risks to such information, and to behave proactively to protect this information in their everyday work. Topics include computer crime, social engineering, physical security, technology threats, and information security self-defense.

### (CBT-GS-IPA) INFORMATION PRIVACY AWARENESS

This introductory course is designed for general staff in roles such as human resources, legal, finance, marketing, sales, operations and customer service who handle personally identifiable information (PII), regulated financial information, protected health information (PHI) and organisational intellectual property as part of their jobs. This course equips employees to recognize different types of private information, to identify the diverse risks to such information, to understand their organizational, regulatory and legal responsibilities in handling private information, and to take the necessary steps to protect it. This course is specifically designed to help companies comply with State Privacy Laws such as MA 201 CMR 17. The course may be customised to meet the specific compliance requirements of the laws and industry regulations under which your organization operates. Topics include identifying personal information, the electronic transmission and storage of personal data, physical data handling, maintaining data security, overseeing service providers and identifying other types of sensitive data.

This course provides some specific details relating to the privacy laws of the USA. However, customisation and changes to the course can replace these references to the Australian counterpart laws from the National Privacy Principles of Australia.

# development staff

## (CBT-DS-ASF) APPLICATION SECURITY FUNDAMENTALS

This foundational course is designed for all staff who participate in application development projects—developers, architects, testers and project managers. This introduction to application security equips students with a common vocabulary, an understanding of common attacks against software and a set of tools and techniques for building more secure applications. Topics include the OWASP Top Ten, key security principles, setting information security goals and controls, validating and sanitizing input and output, and managing risk and security in the SDLC.

## (CBT-DS-SJC) SECURE JAVA CODING

This role-specific intermediate course is designed for experienced Java developers and architects who work with Java development teams. This focused course equips students with a clear understanding of the built-in security features of Java as well as best practices for coding securely. Topics include Web applications, input validation and output sanitization, logging and exception handling, data access security basics, and privacy and secrets. Students should have an understanding of information security basics before taking this course; our Application Security Fundamentals course is the ideal prerequisite.

## (CBT-DS-SNC) SECURE .NET CODING

This role-specific intermediate course is designed for experienced developers and architects working in a .NET environment. This focused course equips students with a clear understanding of the built-in security features of .NET as well as best practices for coding securely. Topics will include: authentication; authorization; auditing and logging; exception handling; input validation; an introduction to cryptography and application testing approaches. Students should have an understanding of information security basics before taking this course. Our Application Security Fundamentals course is the ideal prerequisite.

## (CBT-DS-SWC) SECURE WEB CODING

This role-specific intermediate course is designed for developers, architects and technical QA staff working with Web-facing applications. This focused course equips students with a clear understanding of common attacks against Web-facing applications and best practices for coding securely. Topics include building secure Web applications, XML and Web services, input/output validation, top Web vulnerabilities, application security tools and privacy and secrets. Students should have an understanding of information security basics before taking this course; our Application Security Fundamentals course is the ideal prerequisite.

## (CBT-DS-SCC) SECURE C/C++ CODING

This role-specific intermediate course is designed for developers, architects and database administrators working on development efforts coded in C/C++. This focused course equips development teams with a deeper understanding of application security, a clear understanding of the most common attacks against software coded in C/C++, and best practices for coding securely. Topics include memory corruption bugs, design bugs, privacy and secrets, secure coding, static analysis and fuzzing. The Application Security Fundamentals course is the ideal prerequisite to this course.

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Courses can be customized to meet the specific requirements of each organisation.

Employees who are on the front lines of deploying, managing and securing information technology must be well-equipped to protect sensitive information. We provide role-specific, on-demand and instructor-led security training programs to help your entire information technology team—from system architects to database administrators—deploy, maintain and protect the enterprise infrastructure.

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## IT operations staff

### (CBT-OS-101) SECURITY 101 FOR SYSTEMS ADMINISTRATORS

This introductory course is designed for network administrators, systems administrators, data center teams and other IT staff. This course equips students to better understand and protect network, data center and systems operations. Topics will include: operating systems access control; network access control; application access controls; user access management; monitoring system access and use; operational procedures and responsibilities; and audit controls and tools.

### ABOUT APPSECURE

Appsecure is Asia Pacific's leading application security consulting company, specialised and dedicated to help organisations build and successfully execute application security programs.

Appsecure's team of security consultants and researchers have a combined experience of over 30 years in the field of application security and development. Most of them have excelled in one or more phases of software development prior to expanding into the security field. This real world experience provides the technical depth and breadth required to deliver the enterprise-grade services to our clients.

Appsecure's enterprise-grade application security services range from penetration tests to end-to-end application security programs. For more information visit our web site, or contact us directly [info@appsecure.com](mailto:info@appsecure.com) or 1300 736 778

[www.appsecure.com](http://www.appsecure.com)