



COURSE DETAILS

INTENDED AUDIENCE

Software development professionals and their managers; personnel responsible for software or application security, and testing, and those interested in secure software concepts.

LENGTH

Two Days; (0900-1700)

COST

\$1099 including course notebook and exercise materials. Refreshments and catered lunch provided.

PREREQUISITES

It is recommended that attendees in this highly-technical course have a background in software development. Basic familiarity with C, C++, and Java would be helpful.

This course may also be offered by arrangement at customer sites. Contact Outbreak Security for further information.

Outbreak Security

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INTRODUCTION TO SOFTWARE SECURITY

Overview:

Software vulnerability and software exploits are the root cause of a majority of computer security problems. In fact, software is the target of choice for real hackers. The key to proactive computer security thus involves getting a risk management handle on the software security problem. This comprehensive two-day course—designed by the experts who *literally wrote the book on software security*—encompasses software security awareness and best practices through a combination of lecture and hands-on exercises.

Topics Include:

- Software security concepts
- Three Pillars of Software Security
- Software Security Touchpoints
- Risk Analysis & Security Testing
- Common Problems for Secure Code
- Software and IT Security Integration

Exercises during this class include conducting architectural risk analyses, exploring software abuse case studies, placing architectural risk analysis concepts into practice, conducting a rudimentary software code review using commercial software analyzers.



Objectives

This course will help participants learn why software developers, architects and managers need to make software security an integral part of their jobs, understand the state of the art in software security best practices and how they apply to their organizations, learn why risk management requires a clear understanding of business context and how to use business-case justification of security design to strike the proper balance between security and business, understand security bugs at the implementation level as well as security flaws at the design level and how to identify and eradicate them throughout the software development lifecycle, and finally, gain a clear understanding of how software can be exploited in order to improve your organization's ability to build solid secure code.

About Outbreak:

Outbreak Security was established in 2007 by four distinguished information security professionals whose operational and executive information security and incident handling experience in the government, military, and private sector dates back to 1988 and the birth of the incident response community. Outbreak's instructors are also Visiting Scientists at the Software Engineering Institute at Carnegie Mellon University and have taught numerous incident handling courses there for the CERT/CC.

Instructor biographies and corporate information may be found at www.outbreaksecurity.com.