Computer-Based Training
Threat Modeling

DURATION
- Eight (8) Hours Computer-Based

COURSE MATERIALS
- Standalone CD or SCORM 1.2 compliant contents

SUGGESTED NEXT COURSE(S)
- Writing Secure Code – ASP.NET
- Writing Secure Code – C++
- Writing Secure Code - JAVE (J2EE)

Software insecurity has become one of the biggest security concerns facing organizations today. As hackers turn their attention to the software and applications that make up an organization’s IT infrastructure, people are realizing that the best way to protect that infrastructure is building secure software at the onset.

During this computer-based training course students will learn the process and concepts of building secure software by defining a security framework, then understanding and identifying threats and countermeasures. Students will understand how to use threat modeling to improve the software development lifecycle.

Who Should Take This Class
Software professionals who define, design and architect solutions, those who manage software development projects and teams and those that audit the security of applications. Students should have a basic knowledge of software development methodologies and tools.

Quizzes
Each module concludes with a quiz, which enforces what was just learned and tests the students’ understanding of the module.

Course Modules
Introduction to Threat Modeling and Hacme Books
- Course Objectives
- Benefits of Threat Modeling
- Threat Modeling and The Secure SDLC
- Definitions of terms
- Methodology Overview
- Hacme Books

Identify Security Requirements
- Implementing a Security Requirements Process
- Documenting Security Requirements in a Threat Model
- Identifying Security Requirements for Hacme Books

Understand the System and the Application
- System Security Analysis Framework
- Using SDLC Artifacts
- Documenting Security Architecture and System Internals
- Breaking down Hacme Books

Identify Threats and Countermeasures
- Defining a Security Frame
- Understanding Threat Profiles, Personas and Attack Surfaces
- Leveraging the Security Frame
- To Identify Threats
- To Identify Mitigating Factors and Compensating Controls
- Documenting Threats and Countermeasures
- Enumerating Threats and Countermeasures in Hacme Books

Post Threat Modeling Activities
- Risk Ratings and Managing Risk
- Using The Threat Model as a Living Document Efficiently
- Developing Test Plans and Preparing for Security Testing
- Using the Threat Model to Improve The Secure SDLC