## Security Analyst, Part 2 of 4: Penetration Testing Overview

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Prerequisites: In order to maximize you leaning experience when taking this course, the following prerequisites are highly recommended:

Security + Certification, knowledge of CEH (Certified Ethical Hacker), knowledge of CHFI (Computer Hacking Forensic Investigator) and the CBK (Common Body of Knowledge) associated with the CISSP and CISA certifications are also very helpful.

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Course description: There are many ways and methodologies designed to analyze the information security needs of a corporation or government entity. One of the best ways to analyze the security posture of an organization is through penetration testing. Examine the fundamentals of penetration testing including limits (known as the Scope of Work), the several phases of PTests, and additional methodologies and guidelines. Additionally, the importance of information security auditing and vulnerability assessments will be discussed, as well as legal concerns and risks that may arise for both the penetration tester and the organization being tested.

#### Course outline:

# Auditing Vulnerability Assessment and Pen Test

- Introduction
- Auditing, Vulnerability
   Assessment, and Pentesting
- Audit, Vulnerability Assess, and Pen Test (cont'd)
- Why Penetration Testing is Important
- What Types of Things Should be Tested
- Summary

#### Types and Phases of Penetration Testing

- Introduction
- Non-destructive, Destructive Penetration Testing
- Blue Team, Red Team Penetration Testing
- Black, White, and Grey Box Penetration Testing
- External, Internal Penetration Testing
- Penetration Testing Processes
- Pre-Attack Phase
- Attack Phase
- Post-Attack Phase
- Summary

#### Methodologies and Guidelines

- Introduction
- Methodologies of Penetration Testing
- Help Designing Your Methodology
- Demo: Open Source Testing Documents
- Demo: Open Source Report Documents
- Penetration Testing Guidelines, Documentation
- Penetration Testing Guidelines,

#### Penetration Testing Guidelines, Risks and Skills

Summary

#### **Penetration Testing Results**

- Introduction
- Penetration Testing Rules, Risks, and Behaviors
- Legal Issues
- Documents Needed for Penetration Testers
- Liability Concerns
- Rules of Engagement I
- Rules of Engagement II
- Demo: Documents Concerning Rules of Behavior
- Summary

