



Certificate in Web Application Security Testing

Vskills Certifications

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Certificate in Web Application Security Testing

Web application security testing involves testing and assessing security of web applications and web sites so as to protect websites and online services against different security threats that exploit vulnerabilities in an application's code. The inherent complexity of source code of web applications increases the likelihood of unattended vulnerabilities and malicious code manipulation.

Why should one take Certificate in Web Application Security?

Web Application Security Testing is the emerging domain in software testing which has gained widespread usage due to extensive usage of web applications especially due to COVID pandemic.

Vskills Certificate in Web Application Security Testing covers web technology, security and software testing so as to design and execute test cases for web applications.

The certification attests to your understanding in Web Application Security Testing.

The certification covers

- Client Side Web Application Security
- Server Side Web Application Security
- Web Application Security Test Design
- Web Application Security Test Execution

Who will benefit from taking Certificate in Web Application Security?

Security professionals, software testing professional, engineers, team leads, senior QA engineers, managers will benefit immensely by opting for Vskills Certificate in Web Application Security Testing to gain an edge in the Web Application Security testing and be noticeable amongst their colleagues as well as make progress in their respective careers.

Students taking the certification also gain by showcasing their understanding of Web Application Security Testing and are able to increase their job opportunities.

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Test Details

- **Duration:** 60 minutes
- **No. of questions:** 50
- **Maximum marks:** 50, Passing marks: 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 3,499/- (Excludes taxes)*

*Fees may change without prior notice, please refer <http://www.vskills.in> for updated fees

Companies that hire Vskills Certificate in Web Application Security Professionals

Companies specializing in security services or assessments, software testing or software development are constantly hiring skilled Web Application Security Testers. IT companies, MNCs hire Web Application Security Testing professionals for web application testing related tasks. Companies employing Web Application Security Testing professionals include Google, TCS, Accenture, IBM, Tech Mahindra, GE, Amex, Deloitte, Wipro, TCS, etc.

Table of Contents

1. Web Technology Basics

- 1.1 Web Application
- 1.2 HTML
- 1.3 CSS
- 1.4 JavaScript
- 1.5 Document Object Model (DOM)
- 1.6 XPath
- 1.7 Popular Web Browsers
- 1.8 Inspecting Elements in Browser
- 1.9 TCP/IP Protocol Architecture
- 1.10 Internet Protocol
- 1.11 Transport Layer

2. Software Testing Basics

- 2.1 Scope
- 2.2 Functional vs. Non-Functional testing
- 2.3 Defects and Failures
- 2.4 Finding Faults Early
- 2.5 Compatibility
- 2.6 Input Combinations and Preconditions
- 2.7 Static vs. Dynamic Testing
- 2.8 Software Verification and Validation
- 2.9 The Software Testing Team
- 2.10 Software Quality Assurance (SQA)
- 2.11 Testing Methods - The box approach

3. Security Concepts

- 3.1 Security Principles
- 3.2 Identification and Authentication
- 3.3 Attack Types
- 3.4 Social Engineering
- 3.5 Steganography

4. Information Gathering

- 4.1 Information Gathering Basics
- 4.2 DNS, whois and ARIN records
- 4.3 Using traceroute, e-mail tracking and web spider
- 4.4 Google Hacking
- 4.5 Popular Information Gathering Tools

5. Vulnerability Analysis

- 5.1 Vulnerability Analysis Basics
- 5.2 Identifying and Removing Vulnerabilities
- 5.3 Vulnerability Naming
- 5.4 Vulnerability Assessment Tools

6. Exploitation Techniques

- 6.1 Attack Vector
- 6.2 SQL Injection
- 6.3 Buffer Overflow
- 6.4 Cross-Site Scripting or XSS
- 6.5 CSRF
- 6.6 Hidden Fields
- 6.7 Web-Based Password Cracking
- 6.8 Cookies Attack
- 6.9 URL Obfuscation
- 6.10 Arbitrary Code Execution
- 6.11 File Inclusion Vulnerability
- 6.12 Man-in-Middle Attack

7. Client Side Web Application Security

- 7.1 DOM-based Cross site scripting
- 7.2 JavaScript Execution
- 7.3 HTML Injection
- 7.4 Client Side URL Redirect
- 7.5 CSS Injection
- 7.6 Client Side Resource Manipulation
- 7.7 Cross Origin Resource Sharing
- 7.8 Cross Site Flashing
- 7.9 Clickjacking
- 7.10 WebSockets
- 7.11 Web Messaging
- 7.12 Local Storage

8. Server Side Web Application Security

- 8.1 Configuration and Deployment Management Testing
- 8.2 Identity Management Testing
- 8.3 Authentication Testing
- 8.4 Authorization Testing
- 8.5 Session Management Testing
- 8.6 Input Validation Testing
- 8.7 Error Handling
- 8.8 Cryptography
- 8.9 Business Logic Testing

9. Web Application Security Test Design

- 9.1 Test Design
- 9.2 Web Application Security Testing Challenges
- 9.3 Web Application Security Testing Requirements Gathering
- 9.4 Web Application Security Testing High Level Design
- 9.5 Web Application Security Testing Low level Design
- 9.6 OWASP Web Security Testing Framework

10. Web Application Security Test Execution

- 10.1 Unit Testing
- 10.2 Integration Testing
- 10.3 Web Application Security Test Development
- 10.4 Web Application Security Testing Defects
- 10.5 Defects Reporting
- 10.6 SAST
- 10.7 DAST
- 10.8 Web Application Security Testing Tools

Certifications

- ▶ **Accounting, Banking & Finance**
 - Certified GST Professional
 - Certified AML-KYC Compliance Officer
 - Certified Business Accountant
 - Certified BASEL III Professional
 - Certified GAAP Accounting Standards Professional
 - Certified Treasury Markets Professional
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 - Certified Hadoop and Mapreduce Professional
- ▶ **Cloud Computing**
 - Certified Cloud Computing Professional
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 - Certified Interior Designer
- ▶ **Digital Media**
 - Certified Social Media Marketing Professional
 - Certified Inbound Marketing Professional
 - Certified Digital Marketing Professional
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- ▶ **Hospitality**
 - Certified Restaurant Team Member (Hospitality)
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 - Certified HR Staffing Manager
 - Certified Human Resources Manager
 - Certified Performance Appraisal Manager
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 - Certified Office Administrator
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 - Certified Master in Project Management
 - Certified Scrum Specialist
- ▶ **Real Estate**
 - Certified Real Estate Consultant
- ▶ **Marketing**
 - Certified Marketing Manager
- ▶ **Quality**
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 - Certified Six Sigma Black Belt Professional
 - Certified TQM Professional
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 - Certified Logistics & SCM Professional
 - Certified Supply Chain Management Professional
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 - Certified IPR & Legal Manager
 - Certified Labour Law Analyst
 - Certified Business Law Analyst
 - Certified Corporate Law Analyst
- ▶ **Information Technology**
 - Certified Angular JS Professional
 - Certified Basic Network Support Professional
 - Certified Business Intelligence Professional
 - Certified Core Java Developer
 - Certified E-commerce Professional
 - Certified IT Support Professional
 - Certified PHP Professional
 - Certified Selenium Professional
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 - Certified Android Apps Developer
 - Certified iPhone Apps Developer
- ▶ **Security**
 - Certified Ethical Hacking and Security Professional
 - Certified Network Security Professional
- ▶ **Management**
 - Certified Corporate Governance Professional
 - Certified Corporate Social Responsibility Professional
 - Certified Leadership Skills Professional
- ▶ **Life Skills**
 - Certified Business Communication Specialist
 - Certified Public Relations Officer
- ▶ **Media**
 - Certified Advertising Manager
 - Certified Advertising Sales Professional
- ▶ **Sales, BPO**
 - Certified Sales Manager
 - Certified Telesales Executive

& many more job related certifications

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