

## **Application and Web Security Practitioner Become a web Penetration Tester Training Program**

**100,000+ Students  
have been Trained**

**since  
1997**

### **Who can do?**

- Any Individual or any organization employee can pursue this field
- Like to enhance their professional skills in web & application penetration testing.
- Individuals, working professional and students who would like to develop their career in the field Cyber Security as an Application & Web Penetration Tester.
- Organizations and their employees who would like to understand and know about the Applications and web vulnerabilities.

**Program is  
offered by**

**3D EDUCATORS  
INT**  
22 Years of  
Excellence in  
Training &  
Development

**Invest in  
People the  
only Asset  
that Appreciates**



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### About the Program

This Course is specially designed for those who would like to know and understand regarding cyber security application and web security vulnerabilities and its standards. Further, they would like to know that how to fix these issues, which is highly challenging and unbearable for the organization.

The program is designed for students, individuals and professionals to learn and develop their career in the same

The main objective of the course is to enhance the skills of a person, on different platform of the web pen testing and make them skilled by the different tools and techniques.

### Inauguration

The Training Program will be inaugurated by a senior member of 3D EDUCATORS

### Program Structure

|                        |            |
|------------------------|------------|
| No of classes per week | 01 - Class |
| Duration of each class | 03 – Hour  |
| Total Duration         | 24 Hours   |

### Other Learning Activities

|                          |    |
|--------------------------|----|
| Classroom Assignments    | 04 |
| Hand-on Labs             | 06 |
| Presentation by Trainees | 01 |

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## COURSE CONTENT:

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### Module 1: Security Fundamentals and Web Security Concepts

1. Information security fundamentals
2. CIA triad
3. Authentication, authorization and accounting
4. Threats, vulnerabilities, risks and attacks
5. Attack surface and attack vectors
6. Security controls and defense in depth
7. Secure coding fundamentals
8. Common application security risks
9. Introduction to OWASP
10. Introduction to web penetration testing
11. Legal, ethical and authorized security testing
12. Rules of engagement and testing scope

### Practical Activity

Students identify the attack surface of a deliberately vulnerable web application and prepare a basic threat model.

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## COURSE CONTENT:

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### Module 2: Web Application Architecture and HTTP Fundamentals

3 Hours

1. How the Internet and Web work
2. Client server architecture
3. Web servers and application servers
4. DNS fundamentals
5. HTTP and HTTPS
6. HTTP methods
7. HTTP request and response structure
8. Headers and status codes
9. Cookies and sessions
10. Browser security concepts
11. Same Origin Policy
12. CORS fundamentals
13. REST APIs and JSON
14. Front end and back end security considerations

### Practical Lab

Using browser developer tools and an intercepting proxy:

1. Capture HTTP requests
2. Examine headers
3. Analyze cookies
4. Modify requests
5. Observe server responses
6. Identify security related information

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## COURSE CONTENT:

### Module 3: Authentication, Authorization and Session Security

3 Hours

1. Authentication versus authorization
2. Password security
3. Password storage and hashing
4. Multi factor authentication
5. Session management
6. Session cookies
7. Session timeout
8. Session fixation
9. Session hijacking concepts
10. Broken authentication
11. Broken access control
12. Privilege escalation
13. Horizontal and vertical authorization issues
14. IDOR and object level authorization
15. Secure authentication practices

### Practical Lab

Students test a deliberately vulnerable application for:

1. Weak authentication controls
2. Improper session management
3. Access control weaknesses
4. IDOR
5. Privilege escalation

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## COURSE CONTENT:

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### Module 4: OWASP Web Application Vulnerabilities

3 Hours

1. Introduction to OWASP Top 10
2. Injection vulnerabilities
3. SQL Injection concepts
4. Cross Site Scripting
5. Reflected XSS
6. Stored XSS
7. DOM based XSS
8. Cross Site Request Forgery
9. Security misconfiguration
10. Vulnerable and outdated components
11. Cryptographic failures
12. Identification and authentication failures
13. Software and data integrity failures
14. Server side request forgery concepts

### Practical Lab

Students identify and validate selected vulnerabilities against a controlled vulnerable application.

Tools may include:

- Burp Suite Community Edition
- OWASP ZAP
- Browser Developer Tools

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## COURSE CONTENT:

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### Module 5: Web Penetration Testing Methodology

3 Hours

1. Penetration testing versus vulnerability assessment
2. Web penetration testing methodology
3. Reconnaissance
4. Information gathering
5. Application enumeration
6. Technology identification
7. Directory and file discovery
8. Parameter identification
9. Input validation testing
10. Authentication testing
11. Authorization testing
12. Vulnerability validation
13. Evidence collection
14. Risk assessment
15. Remediation recommendations

### Practical Lab

Students conduct a controlled assessment of a vulnerable web application and create a basic testing checklist.

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## COURSE CONTENT:

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### Module 6: Practical Web Vulnerability Testing

3 Hours

This module provides the main hands on penetration testing component.

1. Proxy configuration
2. Request interception
3. Request modification
4. Parameter manipulation
5. Automated scanning
6. Manual vulnerability validation
7. SQL injection testing concepts
8. XSS testing
9. Authentication testing
10. Authorization testing
11. File upload security testing
12. Input validation testing
13. Security header analysis
14. Error message analysis
15. Sensitive information exposure

### Practical Lab

Students perform controlled testing against platforms such as:

- OWASP Juice Shop
- PortSwigger Web Security Academy labs
- DVWA
- WebGoat

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## TERMS & CONDITIONS

### WITHDRAWAL FROM THE CERTIFICATION OR DIPLOMA

Students are not allowed to withdraw from the CERTIFICATION/DIPLOMA. If a student cannot continue the CERTIFICATION his/her fee will be forfeited.

### CONDUCT AND DISCIPLINE

A disciplinary action, leading to rustication, will be taken against students whose conduct is found objectionable at any time during the course of study. Reference will be made to 3D Educators code of conduct.

### EVALUATION AND GRADING

The performance of students is evaluated through continuous observation of a student's performance in the CERTIFICATION/DIPLOMA – class participation, submission of assignments, quizzes and exercises.

The student will be examined through three hourly exams conducted at the midterm and a final exam at the end of the program. Total marks for passing the CERTIFICATION/DIPLOMA will be 70 out of a total of 100.

Students who do not meet the attendance or any other eligibility criteria will not be allowed to appear in the final examination.

The following grading plan will be applicable for the CERTIFICATION/DIPLOMA:

| A      | B+    | B     | C+    | C     | F        |
|--------|-------|-------|-------|-------|----------|
| 87-100 | 81-86 | 72-80 | 66-71 | 60-65 | Below 60 |

Students who are unable to appear for the final exam are required to submit a written application stating the reason for not appearing for the exam. 3D Educators reserves the right to approve or deny such applications. If approved, the student will be allowed to sit for the exam within one month. Failure to do so, the student will be resubmit the examination fee and sit the future schedule exam. Without passing of the exams no certification will be awarded.

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### **ONLINE LIVE CLASSES FACILITY AVAILABLE**

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.

### **DISTANCE NOT MATTER**

You can join in the live classes Sessions of 3D EDUCATORS – TRAINERS & CONSULTANTS from anywhere of the world.

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### PRECAUTIONARY MEASURES

- During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- If you have taken the admission in the online, then ethically and according to our policy, it is to inform that you will not share and adjunct anyone in the class without our permission. If any evidence is found then you will be debar from the course
- Recording of Lectures are not allowed at your end.

This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions.

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.

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Get the Admission Form

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