



# 3D EDUCATORS

Invest in People that Only Asset that Appreciates...

## Cyber Security Fundamentals Training Program

LIVE ONLINE INSTRUCTOR LED  
ONE TO ONE FACILITY AVAILABLE



### BUILDING NATIONS A Professional Development Institute

This Program is ideally suited to following individuals who are:

- University Graduates and like to develop their Career Cyber Security.
- Already working class who are willing to update and learn the new methodologies of Cyber Security.
- People who are interested to develop their career in Cyber Security.

## COURSE OBJECTIVES:



Why become a cybersecurity professional? The protection of information is a critical function for all enterprises. Cybersecurity is a growing and rapidly changing field, and it is crucial that the central concepts that frame and define this increasingly pervasive field are understood by professionals who are involved and concerned with the security implications of information technology (IT). The Cybersecurity Fundamentals Study Guide is designed for this purpose, as well as to provide insight into the importance of cybersecurity, and the integral role of cybersecurity professionals. This guide will also cover five key areas of cybersecurity: 1) cybersecurity concepts, 2) security architecture principles, 3) security of networks, systems, applications and data, 4) incident response and 5) the security implications of the adoption of emerging technologies.

## Program Details

### Inauguration

Training Program will be inaugurated by a senior member of 3DEducators

### Program Structure

Details of the programs	
Number of classes in a week	1
Duration of each class	2
Guided Hours	24
Non Guided Hours	12
Total Hours	48

### Other Learning Activities

Activities that have been required	
Classroom Assignment	5
Presentation By Trainees	1
Project	1

## CONTENTS

**EXECUTIVE SUMMARY**.....

**Section 1: Cybersecurity Introduction and Overview**.....

Topic 1—Introduction to Cybersecurity.....

Topic 2—Difference Between Information Security and Cybersecurity.....

Topic 3—Cybersecurity Objectives.....

Topic 4—Cybersecurity Roles.....

Topic 5—Cybersecurity Domains.....

Section 1—Knowledge Check.....

**Section 2: Cybersecurity Concepts**.....

Topic 1—Risk.....

Topic 2—Common Attack Types and Vectors.....

Topic 3—Policies and Procedures.....

Topic 4—Cybersecurity Controls.....

Section 2—Knowledge Check.....

**Section 3: Security Architecture Principles**.....

Topic 1—Overview of Security Architecture.....

Topic 2—The OSI Model.....

Topic 3—Defense in Depth.....

Topic 4—Firewalls.....

Topic 5—Isolation and Segmentation.....

Topic 6—Monitoring, Detection and Logging.....

Topic 7A—Encryption Fundamentals.....

Topic 7B—Encryption Techniques.....

Topic 7C—Encryption Applications.....

Section 3—Knowledge Check.....

**Section 4: Security of Networks, Systems, Applications and Data** .....

Topic 1—Process Controls—Risk Assessments.....

Topic 2—Process Controls—Vulnerability Management.....

Topic 3—Process Controls—Penetration Testing.....

Topic 4—Network Security.....

Topic 5—Operating System Security.....

Topic 6—Application Security.....

Topic 7—Data Security.....

Section 4—Knowledge Check.....

**Section 5: Incident Response**.....

Topic 1—Event vs. Incident.....

Topic 2—Security Incident Response.....

Topic 3—Investigations, Legal Holds and Preservation.....

Topic 4—Forensics.....

Topic 5—Disaster Recovery and Business Continuity Plans.....

Section 5—Knowledge Check.....



**Section 6: Security Implications and Adoption of Evolving Technology**.....

Topic 1—Current Threat Landscape.....

Topic 2—Advanced Persistent Threats.....

Topic 3—Mobile Technology—Vulnerabilities, Threats and Risk.....

Topic 4—Consumerization of IT and Mobile Devices.....

Topic 5—Cloud and Digital Collaboration.....

Section 6—Knowledge Check.....

# Live Online Class Facility Available

## INSTRUCTIONS

- ❖ Instructor Led Training
- ❖ Real Time Presentations available at our official website of 3D EDUCATORS
- ❖ 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.
- ❖ Extra Bandwidth Charges shall be incurred.
- ❖ If you are outside country or city then extra courier charges shall be incurred for Certificate.
- ❖ Medium shall be used gotomeeting.com

## **IMPORTANT INSTRUCTIONS FOR LIVE CLASSES**

- ❖ 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 course online, ethically it is recommended and suggested that you only avail this facility.
- ❖ 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.

## **JOIN US FROM ANYWHERE**

Call: 9221-34141329, 9221-34857148

Cell: 0333-2402474

Cell: 0322-2083032

Contact: [info@3deducators.com](mailto:info@3deducators.com)

Web: <http://www.3deducators.com>

Admission Form: [Admission Form](#) (Press Control to download)

## **MANAGEMENT**

### **3D EDUCATORS – TRAINERS & CONSULTANTS**



# TERMS & CONDITIONS

## WITHDRAWAL FROM THE CERTIFICATION OR CERTIFICATION

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:

<b>A</b>	<b>87 - 100</b>
<b>B+</b>	<b>81 -86</b>
<b>B</b>	<b>72 - 80</b>
<b>C+</b>	<b>66 - 71</b>
<b>C</b>	<b>60 - 65</b>
<b>F</b>	<b>below 60</b>

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.

## TRAINING CERTIFICATE SAMPLE





# International Certificate of Authorization from IMRTC USA

CERTIFICATE  
OF AUTHORIZATION

IMRTC USA Recognized

## CERTIFICATE OF AUTHORIZATION



**IMRTC**  
International Management  
Research & Technology Consortium

*This is to Certify That IMRTC Authorized*

**3D EDUCATORS - TRAINERS & CONSULTANTS**

*to work as Training & Research Partner in capacity of  
PARTNER THROUGH PAKISTAN CHAPTER  
for the scope of activity shown below in accordance with the applicable rules of  
the IMRTC. The use of this certification and the authority granted by this  
Certificate of Authorization are subject to the provision of agreement set  
forth in the application.*

*The validity of this certificate is for Five Years from the date of Issuance  
and will increase according to the performance  
Issuance Date: 16 May 2014*

*Cheryyel Rhodes*

*Director Affiliations and Official Affairs*



Chapter ID: AS2933770

Partnership ID: AS5588322\_Pakistan

*Partnerships@imrtc.org*

**INTERNATIONAL MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM**

IMRTC - USA, <http://www.imrtc.org>