

# Training Program on “Cyber Security Training for Government Officials”

Duration: 5 Days

Venue: IT Business Incubator, CUET

Day 1

Start	End	Duration	Session	Topic
9:00 AM	10:00 AM	60 minutes	Session 01 (Morning)	a. Linux essential – Part 1**
10:00 AM	11:00 AM	60 minutes	Session 02 (Morning)	a. Linux essential – Part 2**
11:00 AM	11:15 AM	15 minutes	<b>Tea Break</b>	
11:15 AM	12:15 PM	60 minutes	Session 03 (Morning)	a. Networking Fundamentals b. Network Management c. User Management d. Process management
12:15 PM	1:00 PM	45 minutes	Session 04 (Noon)	a. IP, TCP/IP Protocol, OSI Layer
1:00 PM	2:00 PM	60 minutes	<b>Lunch &amp; Prayer Break</b>	
2:00 PM	3:00 PM	60 minutes	Session 05 (Afternoon)	a. Introduction to Cyber Crime b. Introduction to Security
3:00 PM	4:00 PM	60 minutes	Session 06 (Afternoon)	a. OWASP top 10 vulnerabilities
4:00 PM	4:15 PM	10 minutes	<b>Snacks &amp; Day End</b>	

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### DAY 2

Start	End	Duration	Session	Topic
9:00 AM	10:00 AM	60 minutes	Session 01 (Morning)	a. Introduction to Ethical Hacking
10:00 AM	11:00 AM	60 minutes	Session 02 (Morning)	a. Foot-printing and Reconnaissance
11:00 AM	11:15 AM	15 minutes		<b>Tea Break</b>
11:15 AM	12:00 PM	45 minutes	Session 03 (Morning)	a. Network Scanning b. Enumeration, Sniffing
12:00 PM	1:00 PM	60 minutes	Session 04 (Noon)	a. Vulnerability Assessment
1:00 PM	2:00 PM	60 minutes		<b>Lunch &amp; Prayer Break</b>
2:00 PM	3:00 PM	60 minutes	Session 05 (Afternoon)	a. Malware Threats b. Ransomware attacks
3:00 PM	4:00 PM	60 minutes	Session 06 (Afternoon)	a. Social Engineering b. Phishing
4:00 PM	4:15 PM	10 minutes		<b>Snacks</b>

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### DAY 3

Start	End	Duration	Session	Topic		
9:00 AM	10:00 AM	60 minutes	Session 01 (Morning)	a. Hacking Web Servers		
10:00 AM	11:00 AM	60 minutes	Session 02 (Morning)	a. Hacking Web Applications		
11:00 AM	11:15 AM	15 minutes	<b>Tea Break</b>			
11:15 AM	12:00 PM	45 minutes	Session 03 (Morning)	a. SQL Injection		
12:00 PM	1:00 PM	60 minutes	Session 04 (Noon)	a. Hacking Mobile Platforms		
1:00 PM	2:00 PM	60 minutes	<b>Lunch &amp; Prayer Break</b>			
2:00 PM	3:00 PM	60 minutes	Session 05 (Afternoon)	a. Hacking Wireless Networks		
3:00 PM	4:00 PM	60 minutes	Session 06 (Afternoon)	a. Cloud Computing		
4:00 PM	4:15 PM	10 minutes	<b>Snacks &amp; Day End</b>			

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### DAY 4

Start	End	Duration	Session	Topic
9:00 AM	10:00 AM	60 minutes	Session 01 (Morning)	a. System Hacking
10:00 AM	11:00 AM	60 minutes	Session 02 (Morning)	a. Denial of Service
11:00 AM	11:15 AM	15 minutes		<b>Tea Break</b>
11:15 AM	12:00 PM	45 minutes	Session 03 (Morning)	a. Session Hijacking
12:00 PM	1:00 PM	60 minutes	Session 04 (Noon)	a. Evading IDS, Firewalls, and Honeypots
1:00 PM	2:00 PM	60 minutes		<b>Lunch &amp; Prayer Break</b>
2:00 PM	3:00 PM	60 minutes	Session 05 (Afternoon)	a. IoT Hacking
3:00 PM	4:00 PM	60 minutes	Session 06 (Afternoon)	a. Cryptography
4:00 PM	4:15 PM	10 minutes		<b>Snacks &amp; Day End</b>

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## DAY 5

Start	End	Duration	Session	Topic
9:00 AM	10:00 AM	60 minutes	Session 01 (Morning)	a. Introduction to Computer Forensics b. Computer Forensics Investigation Process
10:00 AM	11:00 AM	60 minutes	Session 02 (Morning)	a. Data Acquisition and Duplication
11:00 AM	11:15 AM	15 minutes	<b>Tea Break</b>	
11:15 AM	12:00 PM	45 minutes	Session 03 (Morning)	a. Operating System Forensics
12:00 PM	1:00 PM	60 minutes	Session 04 (Noon)	a. Collecting Volatile Data
1:00 PM	2:00 PM	60 minutes	<b>Lunch &amp; Prayer Break</b>	
2:00 PM	3:00 PM	60 minutes	Session 05 (Afternoon)	a. Collecting Non Volatile Data
3:00 PM	4:00 PM	60 minutes	Session 06 (Afternoon)	a. Assessment of the trainee and feedback from participants b. Certificate Awarding
4:00 PM	4:15 PM	10 minutes	<b>Snacks &amp; Day End</b>	

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### \*\*Linux Essentials

#### Linux Essentials

#### Contents

- Installing Linux on VMware
- Benefits of installing Linux on VMware
- Overview of VMware and virtualization technology
- Overview of Linux distributions and their features

#### Introduction to the Linux Command Line

- List directory contents
- Change directory
- Print working directory
- Make directory
- Remove directory
- Create a new file
- Display file contents

#### Working with Files and Directories

- Copy files and directories
- Move or rename files and directories
- Remove files and directories
- Show disk usage
- Show disk free space
- Show the beginning of a file
- Show the end of a file
- Display contents of a file one page at a time

#### Text Manipulation

- Search for a pattern in a file or output
- Search for files in a directory hierarchy
- Compress or decompress files
- Cut out sections of files
- Sort lines of text
- Show or filter unique lines of text

Part 1

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Trainer

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### Network Management

- Test network connectivity
- Configure network interfaces
- Show network status
- Connect to a remote server securely
- Securely copy files between hosts
- Download files from the web
- Transfer data from or to a server

### User Management

- Execute a command as a superuser or another user
- Switch user to another account
- Create a new user account
- Change user password
- Change file or directory ownership
- Change file or directory permissions

Part - 2

### Process Management

- Show information about running processes
- Show system resource usage and processes
- Terminate a process by its process ID (PID)
- Terminate all processes with a given name

### Advanced Topics

- Installation of package or software in Linux
- Create links between files or directories
- Show command history
- Mount a file system or storage device
- Unmount a file system or storage device
- Trace the path of network packets
- Copy and convert data
- Clear the terminal screen
- Show differences between two files

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- Display a calendar
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