

# WEBEL FUJISOFT VARA CENTRE OF EXCELLENCE IN INDUSTRY 4.0

## COURSE CONTENT FOR CYBER SECURITY WEST BENGAL MINORITIES DEVELOPMENT & FINANCE CORPORATION

Module No	Module Name	Duration	Course Content
Module I	Fundamental of Information Security	50	<ul style="list-style-type: none"> <li>• Introduction to cyber security</li> <li>• Difference between information security and cyber security</li> <li>• Cybersecurity objectives, Cyber threat and modelling</li> <li>• Vulnerabilities and Threats</li> <li>• Application hardening and Security OS Hardening</li> <li>• Social Engineering</li> <li>• Configuring SSH</li> <li>• Configuring DNS Server</li> <li>• Discovery and scanning techniques</li> <li>• Configuring Web Server with Virtual Hosting</li> <li>• Information Gathering</li> <li>• Mini Project</li> </ul>
Module II	Deep Dive into Cyber Security	120	<ul style="list-style-type: none"> <li>• Communication and Network Security</li> <li>• Security Architecture and Engineering</li> <li>• Wireless Security</li> <li>• Mobile Security</li> <li>• Compliance and Operational Security</li> <li>• Threat Hunting, OSINT &amp; Threat Intelligence and Vulnerabilities</li> <li>• Advanced Incident handling and Analysis</li> <li>• Red Teaming &amp; Blue teaming</li> <li>• Application, Data and Host Security</li> <li>• Access Control and Identity Management</li> <li>• Cryptography</li> <li>• Security and Risk Management</li> <li>• Securing Individual Systems &amp; Security Assessment</li> <li>• Asset Security &amp; Testing the Infrastructure</li> <li>• Dealing with Incidents</li> <li>• Software Development Security</li> <li>• Mini Project</li> </ul>
Module III	Malware Analysis & Digital Forensics	100	<ul style="list-style-type: none"> <li>• Deep Dive to Deep &amp; Dark Web</li> <li>• Malware Analysis</li> <li>• Static and Dynamic Analysis</li> <li>• Reverse engineering of malicious executable</li> <li>• Code injection and hooking</li> <li>• Malware source code obfuscation techniques</li> <li>• Digital Forensic</li> <li>• Malware hunting using memory forensic</li> <li>• Forensic software management and IPDR Analysis</li> <li>• Mini Project</li> </ul>
Module IV	Cyber Security in Emerging Technology	80	<ul style="list-style-type: none"> <li>• Blockchain, Artificial Intelligence and Machine Learning for Cyber Security</li> <li>• Introduction to IoT</li> <li>• IoT Security</li> <li>• Cloud concepts, Architecture &amp; Design</li> <li>• Cloud data security</li> <li>• Cloud infrastructure Security</li> <li>• Cloud Application Security</li> <li>• Security Operation Centre (SOC) &amp; SIEM</li> <li>• Mini Project</li> </ul>
	Real Life Scenario		Capstone Project



# West Bengal Electronics Industry Development Corporation Limited

(A Govt. of West Bengal Undertaking)

DN-53, Salt Lake, Sector - V, Bidhannagar, PIN-700091.

Landmark : Opposite Central Ayurveda Research Institute

<https://webelinformatics.com>, <https://webel-india.com>

WhatsApp : 8100-234-555



Near Sector 5 Metro Stn.

## Certified Ethical Hacker

Duration : 40 Hrs

Exam Fee : Included



<u>Outline for this course</u>	<u>Features &amp; Facilities</u>
<ul style="list-style-type: none"><li>• Introduction to Ethical Hacking</li><li>• Footprinting and Reconnaissance</li><li>• Scanning Networks</li><li>• Enumeration</li><li>• Vulnerability Analysis</li><li>• System Hacking</li><li>• Malware Threats</li><li>• Sniffing</li><li>• Social Engineering</li><li>• Denial-of-Service</li><li>• Session Hijacking</li><li>• Evading IDS, Firewalls, and Honeypots</li><li>• Hacking Web Servers</li><li>• Hacking Web Applications</li><li>• SQL Injection</li><li>• Hacking Wireless Networks</li><li>• Hacking Mobile Platforms</li><li>• IoT and OT Hacking</li><li>• Cloud Computing</li><li>• Cryptography</li></ul>	<ul style="list-style-type: none"><li>• eCourseware from EC-Council</li><li>• Exam Voucher</li><li>• Exam Preparation</li><li>• 10 Ethical Hacking Video Library</li><li>• Certificate of Attendance</li><li>• Official <b>Trained</b> Badge</li><li>• Official <b>Certified</b> Badge</li><li>• Over 3,500 Hacking Tools</li><li>• ANSI Accredited</li><li>• Free Linux Sessions</li><li>• Additional Industry Troubleshootings</li><li>• Additional Practice Sessions</li><li>• Interview Prep and Job Assistance Facility</li><li>• Discounts may change depending on Authority</li></ul>

Also Available :

**CCNA** (Cisco Certified Network Associate), **CyberOps Associate** Globals with Network Academy Benefits

**RHCSA** (RedHat Certified System Administrator) As RedHat Certified Training Partner

**'C'/'C++'/Python/Java/PHP/Database/Software/Hardware/Financial Accounting**

*Taxes applicable on Fees, Contact for latest updates on Discounts*

**Regd. Office :**

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Webel Bhavan, Block: EP & GP, Sector V, Bidhannagar, Salt Lake, Kolkata: 700 091, West Bengal.



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## Diploma in Hardware Technology

Duration : 280 Hrs

<b><u>Brief Outline</u></b>	<b><u>Features &amp; Facilities</u></b>
<ul style="list-style-type: none"><li>• Basic Electronics Concepts, Devices, Roles</li><li>• Chip Level Circuit Analysis</li><li>• Practicals with Resistors, Capacitors,</li><li>• Computer Internals &amp; OS Fundamentals</li><li>• DOS Commands for OS Trouble-shooting</li><li>• Computer Hardware &amp; Compatible OS, Multiboot</li><li>• Additional Device Issues, Backups</li><li>• Networking Basics, Layers, Roles, IPv4 &amp; IPv6</li><li>• Router &amp; Switching Basics, Protocols</li><li>• VLAN, STP, Switch Securities, VPN</li><li>• Static Routing, OSPF, ACL, NAT, WLAN Concepts</li><li>• IPSec, QoS, Firewall, Virtualization, Automation</li><li>• Working with Linux, Basic Commands</li><li>• User/Group Management, File Permissions</li><li>• Package Management, Disk Partitioning</li><li>• Web, Database Server Basics</li><li>• Working with SELinux</li><li>• Job Scheduling, Shell Scripts</li><li>• Trouble-shooting</li></ul>	<ul style="list-style-type: none"><li>• Hands on Electronics Practicals</li><li>• Chip Level Practicals on Boards</li><li>• Circuit Analysis and Fault Finding</li><li>• In Depth DOS Practicals</li><li>• Practical Troubleshooting sessions</li><li>• Working with Genuine Switches/Routers</li><li>• Build Up Ability To Understand Threat Mitigation</li><li>• Multi-Boot Architecture Practicals</li><li>• Practicals with Linux in Real Hardware</li></ul> <p>Contact for More Details.....</p>

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