

## CYBER SECURITY CURRICULUM

| PROGRAM        | MODULE                                    | MODULE DESCRIPTION  | UNITS/LESSONS  |  |  |  |
|----------------|---|---|--|--|--|--|
| Cyber Security | Introduction to Cyber security            | Introduction to the program and Cyber Security essentials and terminology.  | <ul style="list-style-type: none"> <li>▶ Introduction to Cyber Security</li> <li>▶ The Internet – Revision</li> </ul>  | <ul style="list-style-type: none"> <li>▶ IP, MAC and DNS</li> <li>▶ The Weakest Link</li> <li>▶ The Reach-Breach Concept</li> </ul>                | <ul style="list-style-type: none"> <li>▶ The Cyberspace</li> <li>▶ Cloud – How it Works and Cloud Security – Revision</li> </ul>                       | <ul style="list-style-type: none"> <li>▶ Routers and WiFi – Revision</li> <li>▶ Quiz</li> </ul>            |
| Cyber Security | Cyber crimes                              | This module will show you how the masks of online criminals (“Black hat” hackers) and terrorists can be removed, allow you to explore their motives, vicious methods and financial targets.     | <ul style="list-style-type: none"> <li>▶ Types of Cyber Crimes</li> <li>▶ Theft &amp; Damage</li> <li>▶ Hacktivists, Cyber Terrorists, Cyber Criminals, Countries</li> </ul> | <ul style="list-style-type: none"> <li>▶ National Level Examples</li> <li>▶ Quiz</li> </ul>  |  |  |
| Cyber Security | Accounts, Credentials and Identity thefts | Learn how to defend against one of the worst kind of thieves – those who will rip off your online identity and act on your behalf in financial transactions, personal relations and more.       | <ul style="list-style-type: none"> <li>▶ Dictionary Attack and Brute Force</li> <li>▶ Password Security</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Personal Accounts Breach</li> <li>▶ Personal Accounts Recovery</li> </ul>                                 | <ul style="list-style-type: none"> <li>▶ Email Accounts</li> <li>▶ Identity Theft</li> <li>▶ Quiz</li> </ul>   |  |
| Cyber Security | Social engineering                        | This Module will penetrate the mind-set of the hackers, understand the psychology behind phishing scams and how to avoid them.  | <ul style="list-style-type: none"> <li>▶ Social Engineering Avoidance</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Spoofing</li> <li>▶ Social Engineering</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Quiz</li> </ul>   |  |
| Cyber Security | Security–Wares, viruses, attacks          | This module will provide you with a layer of Security against the endless attacks that occur every day over the internet, to minimize damages for you and your clients.                         | <ul style="list-style-type: none"> <li>▶ Viruses VS Malwares</li> <li>▶ Ransomware</li> <li>▶ Spyware &amp; Trojan Horse</li> </ul>  | <ul style="list-style-type: none"> <li>▶ Adware</li> <li>▶ Denial of Service</li> <li>▶ Detection</li> </ul>                                       | <ul style="list-style-type: none"> <li>▶ Software Exploit</li> <li>▶ Antiviruses, Anti-Malwares &amp; Firewalls</li> </ul>                             | <ul style="list-style-type: none"> <li>▶ Prevention</li> <li>▶ Malware Recovery</li> <li>▶ Quiz</li> </ul> |
| Cyber Security | Safe browsing                             | This module will equip you with X-ray vision of cyber space. You will be able to distinguish between real and fake, safe and dangerous, and to avoid the traps and mine fields of the internet. | <ul style="list-style-type: none"> <li>▶ Web Exploits</li> <li>▶ HTTPS, Digital, Certificates and Encryption</li> </ul>  | <ul style="list-style-type: none"> <li>▶ Cookies</li> <li>▶ Web Browsers</li> <li>▶ Advanced Tools</li> </ul>                                      | <ul style="list-style-type: none"> <li>▶ Quiz</li> </ul>   |  |
| Cyber Security | WiFi security                             | This module will help you stay protected while you’re connected to WIFI networks at your office, home and public places.  | <ul style="list-style-type: none"> <li>▶ Wi-Fi Networks</li> <li>▶ Man in the Middle</li> <li>▶ VPN</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Protecting Yourself When Using Wi-Fi</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Protecting Your Wi-Fi Network</li> <li>▶ Quiz</li> </ul>  |  |
| Cyber Security | Mobile security                           | This module will help you stay protected while you’re on the move – provide you crucial knowledge about mobile security.  | <ul style="list-style-type: none"> <li>▶ The Mobile Paradox</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Steps to Protect Your Mobile Phone</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Quiz</li> </ul>   |  |
| Cyber Security | Hardware exploits                         | This module will show you how hardware vulnerabilities are exploited by hackers, and how you can avoid it.  | <ul style="list-style-type: none"> <li>▶ USB Drives</li> <li>▶ Remote Takeover</li> </ul>  | <ul style="list-style-type: none"> <li>▶ Shodan Search Engine</li> <li>▶ Quiz</li> </ul>   |  |  |
| Cyber Security | Privacy essentials                        | This module will teach you the secrets of becoming invisible online, saving your privacy and anonymity, in the age of full disclosure.  | <ul style="list-style-type: none"> <li>▶ Photo Metadata</li> <li>▶ Geolocation</li> <li>▶ Seeking Privacy on the Internet</li> </ul>   | <ul style="list-style-type: none"> <li>▶ Fictive Accounts &amp; Credentials</li> <li>▶ Your Document’s Metadata</li> <li>▶ Deleted Data</li> </ul> | <ul style="list-style-type: none"> <li>▶ Hiding your IP</li> <li>▶ Private Search Engines</li> <li>▶ Tor</li> <li>▶ Browsing Digital Traces</li> </ul> | <ul style="list-style-type: none"> <li>▶ Quiz</li> </ul>   |

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