



SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

C Y B E R S E C U R I T Y

3-Days Workshop On Cyber Security

Workshop Overview:

In today's interconnected world, cybersecurity has become a critical concern for individuals and organizations alike. This three-day comprehensive workshop aims to provide participants with a deep understanding of cybersecurity principles, best practices, and strategies to protect against various cyber threats. Through a combination of theoretical knowledge and practical exercises, attendees will develop the skills necessary to safeguard their digital assets and mitigate risks effectively.

Day 1: Introduction to Cybersecurity

Session 1:

- Welcome and workshop introduction
- Overview of cybersecurity: importance and key concepts
- Introduction to the cybersecurity landscape and current threats

Session 2:

- Foundations of information security: CIA triad (confidentiality, integrity, availability)
- Common cybersecurity roles and career paths
- Introduction to cybersecurity frameworks and standards (e.g., NIST, ISO)

Session 3:

- Network security fundamentals: firewalls, IDS/IPS, and VPNs
- Secure network architecture and design principles
- Hands-on exercise: Configuring network security controls

Day 2: Threats and Defense Mechanisms

Session 1:

- Malware threats and defense mechanisms
- Types of malware: viruses, worms, ransomware, etc.
- Antivirus software and other malware mitigation strategies

Session 2:

- Secure coding practices and application security
- Common web application vulnerabilities (e.g., SQL injection, XSS)
- Secure development lifecycle and code review techniques

Session 3:

- Incident response and handling
- Incident response process and incident management frameworks
- Hands-on exercise: Simulated incident response scenario

Day 3: Risk Management and Emerging Trends

Session 1:

- Risk management principles and methodologies
- Risk assessment techniques: qualitative and quantitative approaches
- Hands-on exercise: Conducting a risk assessment

Session 2:

- Cloud security and virtualization
- Security considerations for cloud environments
- Introduction to virtualization security and containerization

Session 3:

- Emerging trends in cybersecurity
- Internet of Things (IoT) security challenges
- Ethical considerations in cybersecurity and privacy

In conclusion, a three-day cyber security workshop can be highly beneficial for participants by equipping them with valuable knowledge, skills, and connections to bolster their cyber security practices and help safeguard against evolving cyber threats.



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