Cybersecurity Fundamentals for Professionals

PeakForm Professional Academy Inc.

🌐

Course Description

In an era where digital threats are ever-evolving, it's crucial for professionals to understand the fundamentals of cybersecurity. This course is designed to provide a comprehensive introduction to cybersecurity principles, practices, and technologies. Participants will gain the knowledge needed to identify, protect against, and respond to common cyber threats in the workplace.

Duration

Duration: 4 Weeks
Format: Online, Instructor-led Sessions (2 hours per session)
Total Hours: 16 Hours

Course Price

$2,289.00

Objectives

- Identify common cyber threats and understand their potential impact.
- Understand and apply the core principles of cybersecurity.
- Implement basic security measures to protect data and networks.
- Respond effectively to security incidents and breaches.
- Comply with relevant cybersecurity regulations and standards.

Week 1: Introduction to Cybersecurity

- Understanding Cybersecurity
  - Definition and Importance
  - The CIA Triad: Confidentiality, Integrity, Availability

- Cyber Threat Landscape
  - Types of Cyber Threats (Malware, Phishing, Ransomware, etc.)
  - Key Threat Actors (Hackers, Insider Threats, Nation-States)

www.peakformproacademy.com

Week 2: Core Cybersecurity Principles

- Authentication and Authorization
  - Password Policies and Multi-Factor Authentication
  - Role-Based Access Control (RBAC)

- Data Protection and Encryption
  - Basics of Encryption (Symmetric vs. Asymmetric)
  - Data Classification and Handling

Week 3: Securing Networks and Systems

- Network Security Fundamentals
  - Firewalls, VPNs, and Intrusion Detection Systems (IDS)
  - Securing Wireless Networks

- Endpoint Security
  - Anti-virus, Anti-malware, and Patching
  - Secure Configuration and Baseline Security

Week 4: Cybersecurity in Practice

- Incident Response and Management
  - Identifying and Responding to Security Incidents
  - Incident Response Plan Development

- Compliance and Best Practices
  - Understanding Regulatory Requirements (GDPR, HIPAA, etc.)
  - Best Practices and Security Frameworks (NIST, ISO 27001)

Conclusion

By the end of this course, participants will have a solid understanding of the fundamental concepts and practices in cybersecurity. They will be equipped with the knowledge to implement basic security measures and respond to common threats, making them valuable assets in safeguarding their organization's digital infrastructure. This foundational course is a stepping stone for further specialization in the dynamic field of cybersecurity.