

## CyberSPAIS Certified Security Practitioner (CCSP)



## **CyberSPAIS Certified Security Practitioner (CCSP) – Overview**

- ✚ Who Is Eligible for This Course?
  - Freshers looking for basic cybersecurity knowledge.

- ✚ Course Duration
  - 1.25 Months (50 Hours)


- ✚ Course Syllabus
  - Cybersecurity Fundamentals
  - Identity & Access Management
  - Network Security
  - Ethical Hacking

- ✚ Why Training @CyberSPAIS?
  - Job Oriented Industry Relevant Curriculum
  - Based On Latest Cyber Security Topics & Trends
  - 100% Assistance for Placements & Internships
  - Industry Experienced & Certified Trainer
  - Concepts Explained with Industry Scenarios
  - Comprehensive Hands-on Sessions & Labs
  - Regular Module Wise Assessments & Evaluations
  - Cybersecurity Projects & Internships
  - Thorough Preparation – Job Interview & Soft Skills
  - Arrangement To Write Certification Exams
  - Among The Top Cybersecurity Institutes in Kerala

## **CyberSPAIS Certified Security Practitioner (CCSP) – Syllabus**

- ✚ Module1: Cybersecurity Fundamentals (6 Hours)
  - Importance of Security
  - Security job opportunities
  - Information & cyber security
  - Terms & Definitions
  - Confidentiality
  - Integrity
  - Availability
  - AAA
  - Identification
  - Authentication
  - Authorization
  - Accounting
  - Non-repudiation
  - Information assets

- Threats
- Vulnerabilities
- Attacks
- Intrusion & Breach
- Defense in depth
- Discuss Data Breach Reports
- Attacks & Impacts of cyber attacks
- Major Categories of Computer Crime
- Social Engineering

 **Module 2: Identity & Access Management (IAM) (6 Hrs)**

- Subjects and Objects
- Identification and Authentication
- Access & Access Control
- Registration, Proofing, and Establishment of Identity
- AAA
- Authentication Factors
- Something You Know
- Passwords
- Cognitive Passwords
- Something You Have
- Access Cards
- Magnetic Cards
- Smartcards
- Tokens (OTP)
- Something You Are (Biometrics)
- False Rejection Rate
- False Acceptance Rate
- Crossover Error Rate
- Multifactor Authentication (MFA)
- Two Factor
- Three Factor
- Password less Authentication
- Device Authentication
- Service Authentication
- Mutual Authentication
- Single Sign-On
- Federated Identities
- Credential Management Systems
- Session Management
- Identity and Access Provisioning Lifecycle
- Access Control
- Authorization Mechanisms
- Access Control Models
- Implementing Authentication Systems

- Implementing SSO on the Internet
- Implementing SSO on Internal Networks
- Access Control Attacks
- Privilege Escalation
- Password Attacks
- Password Salting

 **Module 3: Network Security (18 Hours)**

- Discuss function of different OSI layers.
- Discuss important protocols at each layer.
- Comparison – TCP vs OSI
- IP Addressing IPv4
- IPv6
- Network Devices
- Network Topology
- Switching
- Routing
- Routing Protocols
- Quality of Service (QoS)
- Network Address Translation (NAT)
- Wired Communication
- Wireless Networks
- LAN Technologies
- WAN Technologies
- Wi-Fi
- Wireless Attacks
- Network Segmentation
- Microsegmentation
- Bastion Host
- Firewall Architecture
- Firewall Types
- Content Filtering
- Proxy Server
- Network Access Control
- Endpoint Security
- Authentication Protocols
- Zero Trust
- Multilayer Protocols
- Remote Access Security
- Load Balancing & Clustering
- Email Security Threats
- Email Security Solutions
- Virtual Private Network
- Attacks on Network Security

- ✚ Module 4: Ethical Hacking (20 Hours)
  - Introduction to Ethical Hacking
  - Footprinting and Reconnaissance
  - Scanning Networks
  - Enumeration
  - Vulnerability Analysis
  - System Hacking
  - Malware Threats
  - Sniffing
  - Social Engineering
  - Denial-of-Service
  - Session Hijacking
  - Evading IDS, Firewalls, and Honeypots
  - Hacking Web Servers
  - Hacking Web Applications
  - SQL Injection
  - Hacking Wireless Networks
  - Hacking Mobile Platforms
  - IoT Hacking
  - Cloud Computing
  - Assessment

✚ Issue Course Certificate

 CyberSPAIS

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Security Privacy & Assurance of Information Systems