



# **Certified in Cybersecurity**

# **Online**

# **Course**

**ZETLAN TECHNOLOGIES**  
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## Course Modules

### Security Principle

- 1. Understand the security concepts of information assurance**
  - Confidentiality
  - Integrity
  - Availability
  - Authentication (e.g., methods of authentication, multi-factor )
  - Non-repudiation
  - Privacy
- 2. Understand the risk management process**
  - Risk management (e.g., risk priorities, risk tolerance)
  - Risk identification, assessment and treatment
- 3. Understand security controls**
  - Technical controls
  - Administrative controls
  - Physical controls

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## 4. Understand ISC2 Code of Ethics

- Professional code of conduct

## 5. Understand governance processes

- Policies
- Procedures
- Standards
- Regulations and laws

## Business Continuity (BC), Disaster Recovery (DR) & Incident Response

## 6. Understand business continuity (BC)

- Purpose
- Importance
- Components

## 7. Understand disaster recovery (DR)

- Purpose
- Importance
- Components





## 8. Understand incident response

- Purpose
- Importance
- Components

## Access Controls

## 9. Understand physical access controls

- Physical security ctrls (e.g., badge systems, gate entry, envrnmnt)
- Monitoring (e.g., security guards, closed-circuit television (CCTV))
- Authorized versus unauthorized personnel

## 10. Understand logical access controls

- Principle of least privilege
- Segregation of duties
- Discretionary access control (DAC)
- Mandatory access control (MAC)
- Role-based access control (RBAC)

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## Network Security

### 11. Understand computer networking

- Networks (e.g., (OSI) model, (TCP/IP) model, (IPv4), (IPv6), WiFi)
- Ports
- Applications

### 12. Understand network threats and attacks

- Types of threats (eg, distributed denial-of-service (DDoS), (MITM)
- Identification (e.g., intrusion detection system (IDS), (HIDS), (NIDS)
- Prevention (e.g., antivirus, scans, firewalls, intrusion prevention)

### 13. Understand network security infrastructure

- On-premises (e.g., power, data center/closets, Heating, Ventilation)
- Design (e.g., network segmentation (demilitarized zone (DMZ)
- Cloud (e.g., service-level agreement (SLA), (MSP), (SaaS), (IaaS)..

## Security Operations

### 12. Understand data security

- Encryption (e.g., symmetric, asymmetric, hashing)
- Data handling (e.g., destruction, retention, classification, labeling)
- Logging and monitoring security events



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## **15. Understand system hardening**

- Configuration management (e.g., baselines, updates, patches)

## **16. Understand best practice security policies**

- Data handling policy
- Password policy
- Acceptable Use Policy (AUP)
- Bring your own device (BYOD) policy
- Change management policy (e.g., documentation, approval..
- Privacy policy

## **17. Understand security awareness training**

- Purpose/concepts (e.g., social engineering, password protection)
- Importance

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