



Online Course

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Course Modules

Identify

- Identify assets (applications, workstations, servers, appliances, operating systems, and others).
 - Asset identification tools
 - Tools
 - Operating system information
 - Determine which tools to use for each part of the network
 - Network topology and architecture information
 - Data flow
 - Vulnerable ports
 - SPAN ports and TAP devices for live packet capture

2. Identify factors that affect the tasking, collection, processing, etc.,

- Identify relevant policies and procedures
- Collect artifacts and evidence based on volatility level
- Review service level agreements (SLAs)
- Network scanning
- Assets and underlying risks
- Data collection
- Data analytics and e-discovery
- Monitor threats and vulnerabilities
- Threat modeling
- Identify TTPs

3. Identify and evaluate vulnerabilities and threat actors.

- Vulnerability scanning tools
- Threat targets
- Mobile & IoT
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- SCADA
- ICS & PLC
- Threat actors
- Threat motives/reasons
- Threat intent
- Attack phases & Attack vectors
- Technique criteria

4. Identify applicable compliance, standards, frameworks, etc.,

- Privacy laws, standards, and regulations
- Frameworks
- Best practices

5. Identify applicable compliance, standards, frameworks, etc.,

- Security laws, standards, and regulations
- Frameworks

6. Identify and conduct vulnerability assessment processes.

- Critical assets and data
- Establish scope
- Determine vulnerability assessment frequency
- Identify common areas of vulnerability
- Users
- Internal acceptable use policies
- Operating systems
- Applications
- Network operations and management
- Firewall
- Network security applications
- Network devices
- Network infrastructure

- DSL
- Wireless protocols
- IP addressing
- Configuration files
- IoT
- Regulatory requirements
- Changes to the system
- Determine scanning criteria
- IoC information
- Perform a vulnerability assessment
- Conduct post-assessment tasks
- Hardening
- Patches
- Exceptions documented

7. Establish relationships between internal teams & external groups

- Formal policies that drive these internal & external relationships
- SLAs
- Communication policies and procedures
- Points of contact and methods of contact
- Vendor agreements, NDAs, & vendor assessment questionnaires
- Privacy rules and laws
- Understanding of relevant law enforcement agencies

Protect

8. Analyze and report system security posture trends.

- Data analytics
- Prioritize the risk observations and formulate remediation steps
- Analyze security system logs, tools, and data
- Threats and vulnerabilities
- Intrusion prevention systems and tools
- Security vulnerability databases
- Discover vulnerabilities in information systems
- Create reports and document evidence

9. Apply security policies to meet the system's cybersecurity objectives and defend against cyber-attacks and intrusions.

- Cybersecurity policies and procedures
- Active Directory Group Policy Objects (GPOs)
- Best practices in hardening techniques
- Threats and vulnerabilities
- Security laws, standards, and regulations
- Risk management principles
- Attack methods and techniques
- DoS

10. Collaborate across internal and external organizational lines

- Organizational structure
- Internal teams
- Personnel roles and responsibilities
- Communication policies and procedures
- Knowledge sharing processes
- Conflict management
- SLAs
- Relationships with external stakeholders

11. Employ approved defence-in-depth principles and practices.

- Intrusion Prevention or Detection Systems (IDS/IPS)
- Firewalls
- Network Segmentation
- Endpoint Detection and Response (EDR) Technologies
- Account Management
- Patch management
- Mobile Device Management (MDM)

12. Develop & implement cybersecurity independent audit processes.

- Identify assets
- Cybersecurity policies and procedures
- Data security policies

- Cybersecurity auditing processes and procedures
- Audit objectives
- Network structure
- Compliance standards
- Document and communicate results

13. Plans of action are in place for vulnrablts identifd durng risk asmt

- Review assessments, audits, and inspections
- Analyze critical issues for action
- Develop plans of action
- Specify success criteria
- Remediation planning
- Resource implications
- Monitoring procedures

14. Protect organizational resources through security updates.

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- Cybersecurity policies and procedures
- Software updates
- Firmware updates
- Software patches

15. Protect identity managmnt & access control within the organiztn

- Enterprise resources
- Access control
- Authentication systems
- Remote-access monitoring
- Cybersecurity policies and procedures
- Identity management
- Authorization
- Infrastructure/physical security
- Physical security controls
- User credentials

Detect

16. Analyze common indicators of potential compromise, anomalies..

- Analyze security system logs, security tools, and data
- IP networking/ IP resolving
- DoS attacks/ DDoS attacks
- Security Vulnerability Databases
- Intrusion Detection Systems
- Network encryption
- SSL decryption

- SIEM & Firewalls
- DLP & IPS
- IDS
- Evaluate and interpret metadata
- Malware
- Network topology
- Anomalies
- Unauthorized programs in the startup menu
- Malicious software
- Registry entries
- Unusual network traffic
- Off-hours usage
- New administrator/user accounts
- Guest account usage
- Unknown open ports
- ın Technologies Unknown use of protocols
- Service disruption
- Website defacement
- Unauthorized changes/modifications
- · Recipient of suspicious emails
- Unauthorized sessions
- Failed logins
- Rogue hardware

17. Analysis of log files from various sources to idntfy possbl threats

- Log collection
- Log auditing
- Log enrichment
- Alerts, reports, and event correlation
- Log retention
- Log aggregator and analytics tools
- Linux tools
- Windows tools
- Scripting languages
- Cloud
- Threat feeds

18. Provide timely detection, identification, & alert of possibl attacks

- Asset discovery methods and tools
- Alerting systems
- Intrusion Prevention or Detection Systems (IDS/IPS)
- Firewalls
- Endpoint Detection and Response (EDR)
- Commn indcatrs of potential compromise, anomalies, & patterns
- Analysis tools
- Document and communicate results

19. Take appropriate action to document and escalate incidents

- Communication and documentation policies and processes
- Security incident reports
- Escalation processes and procedures
- Incident response teams
- Levels of Authority
- Personnel roles and responsibilities
- Document and communicate results

20. Determine the extent of threats & recommend courses of action

- Post exploitation tools and tactics
- Prioritization or severity ratings of incidents
- Communication policies and procedures
- Levels of Authority
- Communicate recommend courses of action & countermeasures

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Respond

21. Execute the incident response process.

- Incident response plans and processes
- Communication with internal and external stakeholders
- Personnel roles and responsibilities
- Incident reporting & Containment Methods



- Containment Tools
- Windows tools to analyze incidents
- Linux-based tools to analyze incidents

22. Collct & seize docmntry or physcal evdence & create a forenscally

- Evidence collection, preservation, and security
- Chain of custody
- Forensic investigation
- Forensic collection and analysis tools
- Forensically sound duplicates
- Document and communicate results

23. Correlate incident data and create reports.

- Logs
- Data analysis
- Intrusion Prevention or Detection Systems (IDS/IPS)
- Forensics analysis
- Correlation analysis
- Event correlation tools and techniques
- Root cause analysis
- Alerting systems
- Incident reports
- Document and communicate results

24. Systm securty measurs in accordance with establish procedures.

- Escalation procedures
- Organizational systems and processes

25. Determine tactics, techniques, & procedurs (TTPs) of intrusn sets.

- Threat actors
- Tactics
- Techniques
- Procedures

26.Interface with internal teams and external organizations

- Communication policies and procedures
- Internal communication methods
- External communication guidelines

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27. Implement recovery planning processes and procedures

- Post-incident
- Analyze incident reports
- Execute recovery planning processes and procedures
- Document and communicate results

28.Implmt specific cyberscurty countermeasures for systems & apps.

- Security requirements of systems
- System interoperability and integration
- Prevention & mitigation
- Safeguards

29. Review forensic images & other data sources for recovery

- Memory forensics analysis/tools
- Data sources and disk images
- Analysis of digital evidence
- Hardware and software tools
- File copying techniques
- File modification, access, and creation times
- Forensic recordkeeping
- Forensic investigation
- Forensic collection and analysis tools

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30. Provide advice and input for disaster recovery, contingency, etc.,

- Recovery planning processes
- Contingency planning
- Systems and assets
- Lessons learned
- Review of existing strategies
- Implement improvements
- Doc & communicate reprts, lessons learnd, & advice for recovery

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