

# Cyber Security and Incident Management – 12 Week Course Plan

This 12-week foundation training course is designed to align with the Unit 11 Cyber Security and Incident Management, for the BTEC Level 3 National Diploma/Extended Diploma in Information Technology.

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Week	Topics	Key Activities / Assessment
1	<b>Introduction to Cyber Security</b> - Importance of cyber security - Common threats and vulnerabilities	- Class discussion on recent cyber-attacks - Quiz on cyber security terminology
2	<b>Types of Cyber Threats</b> - Malware, phishing, DDoS, ransomware, insider threats	- Case studies of real-world attacks - Group activity: identify threat vectors
3	<b>Cyber Security Measures</b> - Technical: firewalls, antivirus, encryption - Human: awareness, policies	- Lab: Configuring a basic firewall - Homework: Write up different security controls
4	<b>Security Policies and Procedures</b> - Acceptable use policy - Access control policies - Password and authentication protocols	- Workshop: Review and critique policy templates - Draft a basic security policy
5	<b>Cyber Security Legislation &amp; Standards</b> - GDPR, Computer Misuse Act, ISO 27001	- Debate on ethical hacking and legislation - Quiz on legal compliance
6	<b>Understanding Risk Management</b> - Risk assessment - Business impact analysis - Risk treatment strategies	- Risk matrix exercise - Begin planning incident response project
7	<b>Incident Management Lifecycle</b> - Identification, containment, eradication, recovery, lessons learned	- Lab: Simulated incident walk-through - Create an incident management flowchart
8	<b>Tools for Incident Detection &amp; Response</b> - IDS/IPS, SIEM, monitoring tools	- Demo: Using Wireshark or Splunk - Homework: Compare different incident detection tools
9	<b>Developing an Incident Response Plan</b> - Roles, communication plans, escalation procedures	- Group project: Draft and present an incident response plan

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## Week Topics

## Key Activities / Assessment

**10** **Review & Assessment** - Final assessment / presentations - Review of key concepts and reflection

- Final practical or written assessment - Self-evaluation and feedback session

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