

MODULE SYNOPSIS – WSDip in Cyber Security & Forensics

Course Objective

This course equips trainees with the skills in network security, threat detection, incident response & digital forensics, equipping them to build strong defenses and protect businesses from evolving cyber threats.

Modules Synopsis

Risk Management & Compliance
On completion of the module, trainees should be able to drive security education and awareness in an organisation by providing advice and guidance on potential risks, mitigation strategies and best practices. They should also be able to manage security program, solutions, products and services, as well as to facilitate stakeholder expectations and needs.
Network Security Management
On completion of the module, trainees should be able to set up, configure, secure, and monitor network system and wireless network for anomalous traffic and identification of intrusions. They should also be able to configure security appliances such as firewall, end-point security, as well as intrusion detection and prevention system, as well as to address identity management requirements and perform logging for network traffic monitoring.
System Security Management
On completion of the module, trainees should be able to implement system security and detect unauthorised system intrusion. They should also be able to set up, configure and secure a virtualised infrastructure.
Security Operation Management
On completion of the module, trainees should be able to monitor security operation. They should also be able to automate threat analysis using innovative technologies and tools.
Security Incident Management
On completion of the module, trainees should be able to manage incidence of cyberattack or breach. They should also be able to automate incident handling using appropriate tools.
Security Assessment
On completion of the module, trainees should be able to perform security scanning to uncover vulnerabilities and weaknesses. They should also be able to elevate extraction and analysis manually and using automated tools.
Security Testing
On completion of the module, trainees should be able to facilitate security testing to uncover weaknesses using intrusive approach. They should also be able to automate the process.

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Cyber Forensics Procedure

On completion of the module, trainees should be able to gather cyber-attack evidence from various sources, escalate the cyber security incident and prepare forensics report for further investigation and analysis.

Company Project

On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

On-the-Job Training

On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function where appropriate, at the company.