

No Co-requisite modules listed

No requirements listed

SAFE: Project Incident Handling and Risk Analysis

University					
Module Title:	Project Incident Handling and Risk Analysis				
Language of Instructio	en: English				
Credits:	10				
NFQ Level:	6				
Module Delivered In	2 programme(s)				
Teaching & Learning Strategies:	This module focuses on the procedural and management side of incident handling and risk analysis. Content will be delivered to learners through lectures with class interaction, supported by practical group sessions. Practical sessions will incorporate workshop style classes for case studies, role based scenarios and evaluation of model policies/frameworks. Collaboration and peer/independent learning embedded into practical sessions, supported by reflection and critiquing of practical session outcomes.				
Module Aim:	To develop learners' knowledge of information security incident handling and perform risk analysis on information systems.				
Learning Outcomes					
On successful completio	on of this module the learner should be able to:				
LO1 Identify an	LO1 Identify and document information security events.				
LO2 Plan an ap	O2 Plan an appropriate incident handling policy.				
LO3 Mitigate ris	Mitigate risk by evaluating risk management strategies.				
LO4 Produce a	Produce and justify a contigency plan which incorporates disaster recovery.				
Pre-requisite learning					
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisite Modules					

RequirementsThis is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.



SAFE: Project Incident Handling and Risk Analysis

Module Content & Assessment

Indicative Content

Information Security Overview

Modern security threats, information security, data classification and incident handling. What is an information security event and the management of information security events.

Vulnerability, Threats and Attacks

Conducting vulnerability assessment, creating a security baseline. Security models, CIA model (Confidentiality, Integrity, Authentication), types of attacks and countermeasures.

Types of Computer Security Incident

Physical security, malicious code, network scanning/penetration, host compromise, database and web vulnerabilities, denial of service and data compromise/theft.

Incident Response

Intrusion detection and prevention systems, security policies and procedures, social engineering threats. Incident handling strategies (Proactive/Reactive) and forensic principles and policy.

Concepts of Risk Analysis

Security planning, risk management and contingency planning/disaster recovery. Policies, procedures, auditing and monitoring

Security Planning

Risk assessment, risk mitigation - deploy controls and minimize exposure. Education - raise threat awareness and publicize event reports,

Risk Management Framework
Physical Security Measures, Personnel Security Practices and Procedures. Administrative Security Procedural Controls. Risk assessment methodologies, strategies and cost/benefit analysis.

Contingency Planning/Disaster Recovery

Disaster classification, disaster recovery plan (detection, response and recovery). Crisis management, impact analysis, communication and follow up.

The Insider Threat

Threats from individuals. Malicious threats from disgruntled employees, former employees, contractors or business associates with insider knowledge. Non-malicious from uninformed staff.

Relevant Security Policies, Frameworks and Publications

Examples - NIST Computer Security Incident Handling Guide and CERT Computer Security Incident Response Team Publications.

Assessment Breakdown		%	
	Project	100.00%	

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Learners will work in teams of two or three throughout the project and can expect to receive feedback on project-related material submitted by weeks 3, 6, and 8.	1,2,3,4	100.00	Week 13

No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	12 Weeks per Stage	4.00		
Project	13 Weeks per Stage	5.54		
Independent Learning	15 Weeks per Stage	8.67		
	Total Hours	250.00		

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KCCYB_B	Bachelor of Science (Honours) in Cyber Crime and IT Security	4	Mandatory
CW_KCCYB_D	Bachelor of Science in Cybercrime and IT Security	4	Mandatory