

ZANY H2201: Incident Handling and Risk Analysis

Module Title	e:	Incident Handling and Risk Analysis			
Language of Instruction:		English			
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Credits:		10			
NFQ Level: 6		3			
Module Delivered In		No Programmes			
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 O	utcomes				
On successi	ful completion	of this module the learner should be able to:			
LO1	Identify and document information security events.				
LO2	Plan an appropriate incident handling policy.				
LO3	Mitigate risk by evaluating risk management strategies.				
LO4	Design a contingency plan which incorporates disaster recovery.				
Pre-requisit	te learning				
	commendatic learning (or a	practical skill) that is recommended before enrolment in this module.			
No recomme	endations liste	d			
Incompatib These are m		have learning outcomes that are too similar to the learning outcomes of this module.			
No incompa	tible modules	listed			
Co-requisit	e Modules				
No Co-requi	site modules	isted			
Requiremen This is prior		practical skill) that is mandatory before enrolment in this module is allowed.			
No requirem	ents listed				



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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, procedures and reviews.

Risk Management 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	%
Continuous Assessment	40.00%
End of Module Formal Examination	60.00%

Continuous Assessment								
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date				
Short Answer Questions	In class, scenario based assessment.	1,2	20.00	n/a				
Written Report	Generate a policy/framework document which will ensure business continuity for an organisation.	3,4	20.00	n/a				

No Project

No Practical

End of Module Formal Examin	nd of Module Formal Examination							
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date				
Formal Exam	Terminal Examination	1,2,3,4	60.00	End-of-Semester				

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	30 Weeks per Stage	3.00
Estimated Learner Hours	30 Weeks per Stage	3.67
	Total Hours	200.00