

ZNTW H1201: Networking

Module Title:		Networking	
Language of Instruction:		English	
Credits:	10		
NFQ Level:	6		
Module Delivered In		1 programme(s)	
Teaching & Learning Strategies:		Combination of lectures and practical laboratory sessions. Lectures will take the form of traditional theory and tutorials. Laboratory sessions take the form of individual & group work.	
Module Aim:		To provide the student with: 1. the skills necessary to build simple computer networks. 2. the basic concepts of networking. 3. the capability to understand basic network device configuration	
Learning Outcomes			
Learning Outcomes			

Learning Ou	rning Outcomes		
On successful completion of this module the learner should be able to:			
LO1	Describe and compare network models		
LO2	Examine IOS (Internet Operating System) basic features		
LO3	Identify network media and construct network cables		
LO4	Identify and explain IP addresses		
LO5	Èxplore and construct LANs and WANs		
LO6	Test and troubleshoot computer networks		

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

No Co-requisite modules listed

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

No requirements listed



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Module Content & Assessment

Indicative Conte	٠+

Networking Basics Network devices, types of networks, Internet (15%)

Network Models and Protocols Network standards and rules, OSI & TCP/IP models (20%)

Network OS Router and Switch IOS architecture & commands (30%)

OSI Lower Layers Physical, Data Link, Network (35%)

Assessment Breakdown	%	
Continuous Assessment	100.00%	

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Two practical examinations to demonstrate the achievement of the leaning outcomes	1,2,3,4,5,6	40.00	n/a
Practical/Skills Evaluation	Weekly practical/laboratory work is designed to allow students to demonstrate the achievement of the learning incomes	1,2,3,4,5,6	20.00	n/a
Examination	Written Test Block 1: The students will be given a written test to assess their knowledge of network devices and protocols	1,2,5	20.00	n/a
Examination	Written Test 2: The students will be given a written test to assess their knowledge of network media & network operating system	3,4,6	20.00	n/a

No Project		

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	30 Weeks per Stage	1.00
Laboratory	30 Weeks per Stage	3.00
Estimated Learner Hours	30 Weeks per Stage	2.67
	Total Hours	200.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KWCAP_C	Higher Certificate in Computing	1	Mandatory