

# ZNTW H1201: Networking

Module Title:			Networking		
Language of Instruction:		1:	English		
Credits: 10		10			
NFQ Level: 6		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					
On successful completion of this module the learner should be able to:					
LO1	Describe and compare network models				

LO6	Test and troubleshoot computer networks			
LO5	Èxplore and construct LANs and WANs			
LO4	Identify and explain IP addresses			
LO3	Identify network media and construct network cables			
LO2	Examine IOS (Internet Operating System) basic features			

Pre-requisite learning				
<i>Nodule Recommendations</i> This is prior learning (or a practical skill) that is recommended before enrolment in this module.				
No recommendations listed				
<b>ncompatible Modules</b> These are modules which have learning outcomes that are too similar to the learning outcomes of this module.				
Io 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				



### **ZNTW H1201: Networking**

#### **Module Content & Assessment** Indicative Content **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 % of Assessment addressed total Date Practical/Skills Two practical examinations to demonstrate the achievement of the leaning outcomes 1,2,3,4,5,6 40.00 n/a Evaluation Practical/Skills 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 Evaluation Examination Written Test Block 1: The students will be given a written test to 1,2,5 20.00 n/a assess their knowledge of network devices and protocols Written Test 2: The students will be given a written test to assess their knowledge of network media & network operating system Examination 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					