

KSBs	Addressed by the curriculum	TM111 related LOs	Where in TM111 study calendar	TM112 related LOs	Where in TM112 study calendar	TM129 related LOs	Where in TM129 study calendar	TM257 related LOs	Where in TM257 study calendar	TM255 related LOs	Where in TM255 study calendar	TM254 related LOs	Where in TM254 study calendar	TT284 related LOs	Where in TT284 study calendar
K1: the causes and consequences of network and IT infrastructure failures	yes, assessed							KU2, CS1, CS2, KS2, KS3, PPS1, PPS2, PPS3	Intro to Networks weeks 1 & 2	CS3	Block 3 Part 2				
K2: the architecture of typical IT systems, including hardware, OS, server, virtualisation, voice, cloud, and applications	yes, assessed	KU1	B1, P2 assessed some Qs in ICMA41	KU1	B1 P1 (Binary data representation and computation) & P3 (Hardware and software concepts), B2 P1 (Cloud computing)			KU1, KU2, KS2, KS3, CS1, CS2, CS3, PPS1, PPS2, PPS3	Intro to Networks weeks 1 & 2	KU1	Block 1 Part 4, Block 3 Part 6	KU2, KS2, PPS3	Block 2 (Databases)	KU2, KS2, PPS3	Block 2 Web architectures (Cloud, distributed architectures ...etc)
K3: the techniques for systems performance and optimisation	yes, assessed							CS1, CS2, PPS1, PPS2	Intro to Networks weeks 1 & 2						
K4: diagnostic techniques and tools to interrogate and gather information regarding systems performance	yes, assessed					PPS2, PPS3	Net 8	KU2, CS1, CS2, PPS2	Throughout first 10 weeks	CS3	Block 3 Part 6				
K5: organizational procedures to deal with recording information effectively and in line with protocols	yes, assessed							PPS2	week 11						
K6: Service Level Agreements (SLAs) and their application to delivering network engineering activities in line with contractual obligations and	yes, assessed											KU1, CS1	Block 1, Part 5	KU1, CS1	Block 1, Part 5
K7: their role in Business Continuity and Disaster Recovery	yes, assessed							KU4, PPS2	week 11						
K8: the purposes and uses of ports and protocols	yes, assessed							KU1	weeks 9 & 10	CS3	Block 3 Part 6				
K9: devices, applications, protocols, and services at their appropriate OSI and/or TCP/IP layers.	yes, assessed	KU1, CS3	B3 P1.2			KU2, KU3, CS2	Net 5	KU1, KU2, CS1, CS2, PPS1, PPS2	Throughout first 10 weeks	KU1	Block 1 Part 3				
K10: the concepts and characteristics of routing and switching	yes, assessed	KU1, CS3	B3 P1.2			KU2, KU3, CS2	Net 4 & 8	KU2, KU3, CS2	Throughout first 10 weeks						
K11: the characteristics of network topologies, types, and technologies.	yes, assessed	KU1, CS3	B3 P1, P2, P3, P4, assessed TMA03 Q2			KU2, KU3, CS2	Net 1 & 6	KU1, KU2, KU3, CS2	Week 1 to 4						
K12: wireless technologies and configurations.	yes, assessed	KU1, CS3	B3 P2, P3, P4 assessed TMA03 Q2	KU1	B2 P3 (Mobile phones and how we use them) & P6 (Location-based computing)	KU2, KU3, CS2	Net 1 & 6	KU1, KU2, KU3, CS1, CS2	Throughout first 10 weeks	KU1	Block 1 part 3				
K13: cloud concepts and their purposes.	yes, assessed			KU1, KU2	Week 6 (B2 P1)			KU1	Intro to Networks weeks 1 & 2						
K14: functions of network services	yes, assessed							KU1, KU2, KU3, CS1	Throughout first 10 weeks						
K15: the different types of network maintenance	yes, assessed							KU1, CS1	week 11						
K16: how current legislation relates to or impacts occupation	no, we do not address this in our current curriculum at levels 4 and 5														
K17: troubleshooting methodologies for network and IT infrastructure	yes, assessed					PPS1, PPS3	Net 10	KU1, KU2, CS1, CS2, PPS1	Throughout first 10 weeks	CS3	Block 1 Part 3				
K18: how to integrate a server into a network	yes, assessed					PPS1, PPS3	Net 1	KU1, CS1, PPS1	Weeks 9 & 10						
K19: the types of security threats to networks and IT infrastructure assets	yes, assessed			KU2	B2 P7 (Dangerous data), B3 P3 (Cryptography: the secret of keeping secrets)	KU4	Net 7 & 8	KU4	week 11	CS3	Block 1 part 3, Block 3 Part 2			KU9	Throughout B1.2 and 3 TMA2.3 and the EMA
K20: how to use tools to automate network tasks	no, we do not address this in our current curriculum at levels 4 and 5														
K21: approaches to change management	yes, assessed											KU1, KU3, CS1	Block 1 Parts 6 and 7, Block 3 Part		
S1: apply the appropriate tools and techniques when securely operating and testing Networks	yes, assessed					PPS1, PPS3	Net 7 & 8	KU1, KU2, CS1, CS2, PPS1	week 11	CS3	Block 3 Part 6				
S2: install and configure the elements required to maintain and manage a secure Network	yes, assessed					PPS1, PPS3	Net 7 & 8	KU1, KU2, CS1, CS2, PPS1	week 11						
S3: implement techniques to monitor and record systems performance in line with defined specifications	no, we do not address this in our current curriculum at levels 4 and 5														
S4: maintain security and performance of the system against known and standard threats	yes, assessed					PPS1, PPS3	Net 7 & 8							KU9	Blocks 2,3,4
S5: apply the appropriate tools and techniques to identify systems performance issues	yes, assessed														
S6: apply the appropriate tools and techniques to gather information to troubleshoot issues and isolate, repair or escalate faults	yes, assessed							KU2, CS1, CS2, PPS1, PPS2	Throughout first 10 weeks	CS3	Block 3 Part 6				
S7: communicate outcomes of tasks and record in line with organisational procedures and SLAs including adherence to good customer service standards	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
S8: upgrade, apply and test components to systems configurations ensuring that the system meets the organisation's requirements and minimises downtime. This should include backup processes.	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
S9: record task details whether face-to-face, remote or in writing in line with organisational requirements	yes, assessed					PPS4	Net 4.5,7, & 8			KS4	Block 2 part 1				
S10: interpret information received from a manager, customer or technical specialist and accurately implement the defined requirements	yes, assessed									KS3	Block 1 part 6	KU2, CS2, KS2, PPS3	Block 2 Parts 1, 3-9	KU2, CS2, KS2, KS3, PPS3	Block 2 Parts 1, 3-6
S11: monitor, identify and implement required maintenance procedures	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
S12: implement techniques to optimise systems performance in line with defined specifications	no, we do not address this in our current curriculum at levels 4 and 5													KU2, CS2	Block 2, Part 6
S13: organise and prioritise clients/stakeholders' requests in line with SLAs and organization processes	yes, assessed											KU1, KU3, CS4, PPS4	Block 1 Part 5, Block 3 Parts 3 and 6	KU1, KU3, CS4, PPS4	Block 1 Part 5, Block 3 Parts 3 and 6 TMA01, 2, 3 and EMA
S14: explain their job role within the business context to stakeholders to enable a clear understanding on both sides of what their remit is and convey technical constraints in appropriate language considering accessibility and diversity implications.	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
S15: operate securely and apply the appropriate process, policies, and legislation within their business responsibilities	yes, assessed	KU3, CS1	B1 P1, B3 P6, assessed TMA03 Q2b	KU3, CS2, PPS4	B3 P5 (IT and the Law)					CS1, CS3, PPS1, PPS5	Block 2, Part 10		CS1, CS3, PPS1	Throughout the whole module	
S16: communicate with a range of stakeholders taking into consideration of organisations cultural awareness and technical ability	yes, assessed			KS1, KS2	B2 P1 (Cloud computing part includes guidance on report writing) and assessed in TMA 03 with final 600 word report for general audience					KS1	Block 1 part 6				
S17: apply the appropriate level of responsibility when planning and prioritizing work tasks	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
S18: apply the relevant numerical skills (Binary, dotted decimal notation) required to meet the defines specifications	yes, assessed	KS3	B1, P2, P3, B3 P1, P2, assessed some Qs in ICMA41 & ICMA43 Qs9-12	KS5	Week 1	KS2	Net 4	KS4	weeks 5 to 8	KS2	Block 1 Part 1-5				
S19: ensure compliance of network engineering outputs with change management processes	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
S20: select the appropriate tools and comply with organisation policies and processes when upgrading systems	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
B1: work independently and demonstrate initiative being resourceful when faced with a problem and taking responsibility for solving problems within their own remit	yes, assessed	PPS1	All course	CS1, PPS2, PPS3	All course	PPS2, KS3	All course	KS1	All course	CS1	All course				
B2: work securely within the business	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
B3: work within the goals, vision, and values of the organisation	yes, assessed	PPS1	All course	PPS4	All course	KU4	All course	KU5	All course		All course				
B4: take a wider view of the strategic objectives of the tasks/ projects they are working on including the implications for accessibility by users and diversity.	yes, assessed	KU3, CS1	All module, esp B1 P6, assessed TMA01 Q5a - accessibility of Us	CS2, PPS4	All course	KU4	All course	KU4	All course		All course	KU2, PPS1, PPS5	Block 2, Part 10	KU2, PPS1, CS5	Block 1 TMA01 Block 2/TMA02 and EMA
B5: works to meet or exceed customers' requirements and expectations	no, this cannot be achieved via classroom learning, but will require some form of internship or employer training														
B6: Identifies issues quickly, investigates and solves complex problems and applies appropriate solutions. Ensures the true root cause of any problem is found and a solution is identified which prevents recurrence	yes, assessed	KS1	All course	CS1, KS5, PPS1, PPS5	All course	KS1, KS2	All course	CS1, CS2	All course	CS1	All course				
B7: Committed to continued professional development to ensure growth in professional skill and knowledge.	yes, assessed	PPS1, PPS2	All module assessed TMA01 Q5b, TMA02 Q5.	PPS3											
B8: work effectively under pressure showing resilience	yes, assessed									KS3	Block 2 part 3				