Map at: https://www.instituteforapprenticeships.org/media/4392/software-developer-st0116-standard.pdf

K1: all stages of the software development life cycle (what each stage contains, including the inputs and outputs)	yes, assessed	LOs	study calendar LOK	Os :U1, CS1	study calendarLOsBlock 1 Parts 2and 4, Block 2Parts 2, 4 and 5.Block 3 Part 2.TMA 01, 02 and 03	study calendar		study calendar		study calendar	LOs PPS3	study calendar Block 2 Part 3	LOs KU1, KU7, CS1, PPS3	study calendar Block 1 Block 4
	yes, assessed										PPS3	Block 2 Part 3	PPS3	Block 1 and Blo
esponsible for what) 3: the roles and responsibilities of the project life cycle within your organisation, nd your role	achieved via classroom learning but will require													4
(4: how best to communicate using the different communication methods and	some form of internship or yes, assessed	KS2	Block 1 Pt 4.5.3, K	S1	Block 2 Part 1,								KU1, KU2, KU4,	Block 1and all
ow to adapt appropriately to different audiences	no, we do not address this in our	r	TMA01 Q4a, Q5a		TMA 02, TMA 03								KS2	assessments (report writing)
nethodologies, such as agile and waterfall.	at levels 4 and 5 (we address it at													
K6: how teams work effectively to produce software and how to contribute appropriately	yes, assessed	CS2	Block 2 Pts2-5, KI	U1, CS1	Block 1 Part 4.		KU1, 2; PS2	Week 2, 5, 6						
K7: software design approaches and patterns, to identify reusable solutions to commonly occurring problems		0.52	TMA02	.01, CST	Block 1 Part 4, Block 2 Parts 2, 4 and 5. Block 3 Part 2. TMA 01, 02, 03 Block 3, Part 5		PS 2	, vveek 9, 12-15						
K8: organisational policies and procedures relating to the tasks being undertaken, and when to follow them. For example, the storage and treatment of GDPR sensitive data. K9: principles of algorithms, logic and data structures relevant to software	yes, assessed	KU2	B2 - especially P6, KI		Block 1, Block 2 KU2, PPS1	Robotics 2,3,4;	KU 1,2; CS 1	Weeks 20-25	KU1	Weeks 2 – 20				
A9: principles of algorithms, logic and data structures relevant to software development, e.g. arrays, stacks, queues, etc.	yes, assessed	KU2	assessed in TMA02 Q4, iCMA42 & iCMA43	.01	Parts 2, 4 and 5. Block 3 Parts 1 and 2. TMA 01, 02,	Op Sys 3,4	KU 1,2, CS 1	vveeks 20-25		vveeks 2 – 20				
K10: principles and uses of relational and non-relational databases	yes, assessed	KU1, KU3	B1 Pt4, TMA01 Q3		03		describe the characteristics of				KS2, KU2, CS3, PPS3, PPS5	Block 2 Parts 2-10	CS3, CS4	Block 2 / TMA02
K11: software designs and functional/technical specifications	yes, assessed		K	U1, CS1	Block 1 Parts 2 and 4, Block 2 Parts 2, 4 and 5. Block 3 Part 1 and		an array object; KU 1, 2, 3	Weeks 3 - 28	KU2	Weeks 2 – 20				
K12: software testing frameworks and methodologies	yes, assessed		Pf	PS1	2. TMA 01, 02, 03 Block 2, Part 4.		write code to access elements in an array, and							
							use them in statements and expressions;		DD04		1/110 1/00 DD00		000.004	71 1 44
S1: create logical and maintainable codes	yes, assessed			ΰ1, CS1, PPS ²	Block 1 Parts 2 and 4, Block 2 Parts 2, 4 and 5. Block 3 Part 2. TMA 01, 02 and 03		KU 1, 2, 3; CS 2; KS 1	vveeks 3 - 28	PPS1	Weeks 2 – 20	KU2, KS2, PPS3	BIOCK 2, Part 6	CS3, CS4	Throughout the whole module
S2: develop effective user interfaces	yes, assessed	KU1, KU3	Block 1 Pt6, TMA01 Q5a				use the methods of the class java.util.Arrays to manipulate array objects:						CS1, CS3, CS4, CS5	Block 1, 2 and 3 TMA 1/2/3 and the EMA
S3: link code to data sets	yes, assessed			PS1	Block 1 Part 4		objects; KU 1, 2, 3; CS 1, 2; KS 1; PS 2		PDQ1	Weeks 2 . 00				
54: test code and analyse results to correct errors found using unit testing	yes, assessed			PS1	Block 1 Part 4, Block 2 Park 4, TMA 01, 02		KU 1, 2; CS 1, 2;	ууеекs 17-18	PPS1	Weeks 2 – 20				
S5: conduct a range of test types, such as Integration, System, User Acceptance, Non-Functional, Performance and Security testing.	no, we do not address this in our current curriculum at levels 4 and 5 (we address it at													
S6: identify and create test scenarios	level 6) yes, assessed	KU2, CS2, KS1	B2 section 4 of P2, Pf 3, 4 & 5 assessed in TMA02 Q3 &Q4, iCMA42	PS1	Block 1 Part 4, Block 2 Part 4, TMA 01 and 02				PPS1	Weeks 2 – 20				
67: apply structured techniques to problem solving, can debug code and can understand the structure of programmes to identify and resolve issues	yes, assessed	KU2, CS2, KS1		S1, PPS1	Block 1 Parts 2 PPS1, PPS3 and 4, Block 2 Parts 2, 4 and 5.	Robotics 2-6; Op Sys 2	KU 1, 2, 3; CS 1, 2; KS 1, 2, 3; PS 1, 2		PPS1	Weeks 2 – 20				
3: create simple software designs to effectively communicate understanding of e program	yes, assessed	KU2, CS2, KS2	Block 2 Pts2-5 section 4, TMA02	U1, CS1	Block 1 Parts 2 and 4, Block 2 Parts 2, 4 and 5. Block 3 Part 2.		KU 1, 2, 3; KS 3	Weeks 11-16					CS1, CS2	Block 1
S9: create analysis artefacts, such as use cases and/or user stories	yes, assessed				TMA 01, 02 and 03						KU2, KS2, PPS5	Block 2, Part 1		
S10: build, manage and deploy code into the relevant environment	no, this cannot be achieved via classroom learning but will require some form of internship or													
S11: apply an appropriate software development approach according to the relevant paradigm (for example object oriented, event driven or procedural)	employer training yes, assessed		<u>к</u> і	U1, CS1, PPS1	Block 1 Parts 2 and 4, Block 2 Parts 2, 4 and 5. Block 3 Part 2.									
S12: follow software designs and functional/technical specifications	yes, assessed				TMA 01, 02 and 03		KU 1, 2, 3; CS 2;	Weeks 3-28	KU2	Weeks 2 – 20				
612: follow testing frameworks and methodologies	no, we do not address this in our current curriculum at levels 4 and 5						KO 1, 2, 3, CS 2, KS 1			Weeks 2 – 20				
S14: follow company, team or client approaches to continuous integration, version	(we address it at												KS3, PPS3	Block 4 and EM
and source control 615: communicate software solutions and ideas to technical and non-technical	yes, assessed						KS 2, 3	Throughout	KU2	Weeks 2 – 20	KU2, CS2, KS2	Block 2, Part 4	KS2	Y_P (throughou
takeholders 16: apply algorithms, logic and data structures	yes, assessed		C	S1	Block 1 Parts 2 and 4, Block 2 Parts 2, 4 and 5. Block 3 Part 2. TMA 01, 02 and 03	Robotics 2-6	KU 1, 2, 3; CS 1, 2; KS 1; PS 1, 2	Weeks 3-28	KU1, CS1, CS2	Weeks 2 – 20				the whole modu
617: interpret and implement a given design whist remaining compliant with security and maintainability requirements	yes, assessed										KU2, CS2, CS3, PPS1, PPS3,	Block 2, Parts 6, 9 and 10		
B1: Works independently and takes responsibility. For example, has a disciplined and responsible approach to risk, and stays motivated and committed when facing	through our										PPS5			
challenges	embedded employability skills development acros													
32: Applies logical thinking. For example, uses clear and valid reasoning when making decisions related to undertaking work instructions	the curriculum yes, assessed				PPS2, PPS3, KS	3 All course	KU 1, 2, 3; KS 1; PS 2	Weeks 3-28	KU1, CS1, CS2	Weeks 2 – 20				
33: Maintains a productive, professional and secure working environment	no, this cannot be achieved via classroom learning but will require													
B4: Works collaboratively with a wide range of people in different roles, internally and externally, with a positive attitude to inclusion & diversity	through our embedded employability skills development acros													
35: Acts with integrity with respect to ethical, legal and regulatory ensuring the protection of personal data, safety and security.	the curriculum yes, assessed	KU3	Block 1 Pt1, Block Kl 3 Pt6, iCMA41	U3, CS2	Block 2 Part 7, Block 3 Parts 3-6, TMA 03	Net 5,6,7; Op Sys 6; Robotics 3,4,7								
36: Shows initiative for solving problems within their own remit, being resourceful when faced with a problem to solve. 37: Communicates effectively in a variety of situations to both a technical and non		KS2	In TMA01 and KS	S1	KS3, PPS3, PPS4 Block 2 Part 1, CS2, KS1	4 Portfolio, eg Robotics 5 All course							CS1, KS3 KS2	Throughout the whole module Throughout the
37: Communicates effectively in a variety of situations to both a technical and non rechnical audience. 38: Shows curiosity to the business context in which the solution will be used,	yes, partially,		TMA01 and Ka TMA03 questions sk students to address specific audiences		TMA 02, TMA 03									whole module
displaying an inquisitive approach to solving the problem. This includes the	through our embedded employability skills development acros the curriculum													
B9: Demonstrates creativity and tenacity in their approach to solutions and the methods used to come to a solution for example, sees the task through to the end by devising new solutions and despite obstacles and problems along the way.	yes, assessed	KU2, CS2	Mainly in the ethos of Block 2 'creating solutions' e.g. Part 2.4											
	-	1				1		1		1	1	1	1	1

1