

Level 3 Cloud Based Systems and Services

Performance points for 2019

Will be on UCAS Tariff Table from May 2018 onwards.

For Certificate: 3 mandatory units below and 2 optional, for example Cisco CyberSecurity Essentials and Networking Essentials

For Diploma: 3 mandatory units below and 5 optional, for example Cisco CCNA 1-4, Cisco CCNA Security

Please note: although the units are "optional", they are actually mandatory as they are required for Guided Learning Hours. They are optional as there is a choice of many from which to select the required number.

 HANDBOOK Level 3 Certificate / Diploma	 Level 3 Certificate <small>Cloud Systems and Services</small>	 Level 3 Diploma <small>Cloud Systems and Services</small>	 RQF LEVEL DESCRIPTORS
[1]	[2]	[3]	[4]

Level 3

Level 3, Unit 40 - Cloud Based Services and Applications (5 credits)

1. Select, analyse and connect cloud based services and their associated applications to meet needs

[1.1 Describe the connectivity needed for cloud based services to work](#) [5]

[1.2 Analyse the connectivity needed to make cloud based services productive and efficient](#) [8]

2. Install and configure accounts and manage them to meet needs and be in line with costs and requirements

[2.1 Analyse the requirements for account management](#) [6]

[2.2 Assess the needs of account management and recommend procedures and processes for optimal use](#)

3. Check and test the systems in terms of functionality and interoperability and that they meet needs and expectations

[3.1 Analyse system needs based on effectiveness and efficiency](#) [7]

[3.2 Document and describe system needs to match outcomes](#) [10]

[9]

[1.3 Critically assess the needs of different devices needed to connect and use the cloud, including any limitations they might have](#) [11]

[1.4 Research and recommend applications for cloud based services dependent on needs](#) [14]

[1.5 Describe and evaluate the limitations on connectivity based on speed and expected outcomes](#) [17]

[2.3 Verify account management procedures are fit for purpose](#) [12]

[2.4 Evaluate costs associated with cloud based access against requirements](#) [15]

[2.5 Describe and recommend account management packages based on value for money and suitability](#) [18]

[2.6 Use/evaluate different tools/control panels/portals to manage cloud products](#) [20]

[2.7 Compare several different offerings and recommend the best one based on cost, services and account flexibility](#) [21]

[2.8 Use account management techniques in line with local guidelines and legal restrictions](#) [22]

[3.3 Describe and explain different file types relating to expected needs and outcomes](#) [13]

[3.4 Describe and explain file extensions in terms of strengths and weaknesses](#) [16]

[3.5 Present research and match findings to the requirements of different needs and expectations](#) [19]

Level 3, Unit 41 - Cloud Based Systems and Security (5 credits)

1. Assess and understand cloud based systems and the required security to make them effective

[1.1 Describe and compare the main hypervisors used to deliver cloud computing](#)

2. Analyse and configure systems for effective and efficient data management and make recommendations

[2.1 Evaluate the key hardware and software required for big data](#)

3. Investigate and understand security threats and legal issues surrounding cloud based systems

[3.1 Analyse and research the main threats to cloud based systems](#) [26]

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[24]	solutions and describe how it is used [25]	
1.2 Describe the main systems and hardware used for cloud based use and explain their main features [27]	2.2 Analyse the data requirements of a range of situations [28]	3.2 Describe the threats to cloud based systems and give examples of their functionality [29]
1.3 Analyse the features of the main cloud based systems and services [30]	2.3 Describe how the data needs of different companies and usage will affect their data solutions [31]	3.3 Describe and recommend ways to minimise threats to cloud based systems [32]
1.4 Assess the strengths of the cloud based services on offer and give clear examples to illustrate my conclusions [33]	2.4 Describe the different types of data management system available [34]	3.4 Describe the laws which affect cloud based services [35]
1.5 Assess the weaknesses of the cloud based services on offer and indicate ways to minimise the impact of these problems [36]	2.5 Assess the strengths of data management systems and recommend the best in terms of effectiveness and efficiency [37]	3.5 Describe the licenses and their impact on cloud based services [38]
1.6 Evaluate cloud based services and systems against desktop and dedicated server based systems [39]	2.6 Evaluate data management and attempt to predict future trends [40]	3.6 Evaluate the impact of laws and licenses on the development of cloud based services [41]
	2.7 Analyse the legal implications of cloud based data storage and retrieval [42]	

Level 3, Unit 42 - Undertaking a RealWorld Project (5 credits)

1. Research and plan a real-world project to apply my theoretical knowledge in a	2. Analyse the service and security requirements for the project to be a	3. Describe the application s and data requirements needed in line with client	4. Produce a project based on my research and unders tanding to meet the	5. Recommen d services and application s to meet client needs
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practical way	success	needs and expectations and to cope with scaling and flexibility	client's needs	
1.1 State the aims and objectives of the project [44]	2.1 Identify the service requirements for the project [45]	3.1 Identify a range of hardware and software solutions [46]	4.1 Produce a working system to satisfy the client's needs and objectives set out in the planning process [47]	5.1 Evaluate the solution with respect to the client budget [48]
1.2 Show a real need for the project undertaken [49]	2.2 Identify the security requirements of the client [50]	3.2 Explain the limitations and cost implications of each solution to the client [51]		5.2 Test and evaluate the solution to meet the client's needs [52]
1.3 Define the client base [53]	2.3 Produce an outline plan for the project [54]	3.3 Describe the back-up and disaster recovery processes to ensure system stability [55]		5.3 Evaluate the solution with respect to local conventions and legal requirements [56]
1.4 Provide a list of alternative solutions [57]				
1.5 Evaluate the alternatives [58]				

Links to ITQ units

Entry Level	Level 1	Level 2	Level 3
Entry Level 1. Unit R - Registration [60]	Level 1. Unit R - Registration [61]	Level 2. Unit R - Registration [62]	Level 3. Unit R - Registration [63]
Entry Level 1. Unit 1 - Improving	Level 1. Unit 1 - Improving	Level 2. Unit 1 - Improving	Level 3. Unit 1 - Improving

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[Productivity Using IT \(1 credit\) \[64\]](#)

[Entry Level 1, Unit 2 - Using ICT to Select and Exchange Information \(2 credits\) \[68\]](#)

[Entry Level 1, Unit 3 - Online Basics \(2 credits\) \[72\]](#)

[Entry Level 1, Unit 4 - Desktop Publishing Software \(2 credits\) \[76\]](#)

[Entry Level 1, Unit 5 - Safe Working Practices \(2 credits\) \[80\]](#)

[Entry Level 1, Unit 6 - Using ICT in the Workplace \(2 credits\) \[84\]](#)

[Entry Level 1, Unit 7 - Imaging software \(2 credits\) \[88\]](#)

[Entry Level 1, Unit 8 - Using ICT Equipment in a Work Place \(2 credits\) \[92\]](#)

[Entry Level 1, Unit 9 - Using Word Processing Software \(2 credits\) \[96\]](#)

[Entry Level 1, Unit 11 - Audio and Video Software \(2 credits\) \[100\]](#)

[Entry Level 1, Unit 12 - Presentation Software \(2 credits\) \[104\]](#)

[Productivity Using IT \(3 credits\) \[65\]](#)

[Level 1, Unit 2 - Website Software \(3 credits\) \[69\]](#)

[Level 1, Unit 3 - Using Collaborative Technologies \(3 credits\) \[73\]](#)

[Level 1, Unit 4 - IT Security for Users \(1 credit\) \[77\]](#)

[Level 1, Unit 5 - Spreadsheet Software \(3 credits\) \[81\]](#)

[Level 1, Unit 6 - Specialist Software \(2 credits\) \[85\]](#)

[Level 1, Unit 7 - Word Processing \(3 credits\) \[89\]](#)

[Level 1, Unit 8 - Using the Internet \(3 credits\) \[93\]](#)

[Level 1, Unit 9 - Drawing and planning \(2 credits\) \[97\]](#)

[Level 1, Unit 10 - Presentation Software \(3 credits\) \[101\]](#)

[Level 1, Unit 11 - Database Software \(3 credits\) \[105\]](#)

[Level 1, Unit 12 -](#)

[Productivity Using IT \(4 credits\) \[66\]](#)

[Level 2, Unit 2 - Website Software \(4 credits\) \[70\]](#)

[Level 2, Unit 3 - Using Collaborative Technologies \(4 credits\) \[74\]](#)

[Level 2, Unit 4 - IT Security for Users \(2 credits\) \[78\]](#)

[Level 2, Unit 5 - Spreadsheet Software \(4 credits\) \[82\]](#)

[Level 2, Unit 6 - Specialist software \(3 credits\) \[86\]](#)

[Level 2, Unit 7 - Word processing \(4 credits\) \[90\]](#)

[Level 2, Unit 8 - Using the internet \(4 credits\) \[94\]](#)

[Level 2, Unit 9 - Drawing and planning \(3 credits\) \[98\]](#)

[Level 2, Unit 10 - Presentation software \(4 credits\) \[102\]](#)

[Level 2, Unit 11 - Database software \(4 credits\) \[106\]](#)

[Level 2, Unit 12 -](#)

[Productivity Using IT \(5 credits\) \[67\]](#)

[Level 3, Unit 2 - Website Software \(5 credits\) \[71\]](#)

[Level 3, Unit 3 - Using Collaborative Technologies \(6 credits\) \[75\]](#)

[Level 3, Unit 4 - IT Security for Users \(3 credits\) \[79\]](#)

[Level 3, Unit 5 - Spreadsheet Software \(6 credits\) \[83\]](#)

[Level 3, Unit 6 - Specialist Software \(4 credits\) \[87\]](#)

[Level 3, Unit 7 - Word Processing Software \(6 credits\) \[91\]](#)

[Level 3, Unit 8 - Using the Internet \(5 credits\) \[95\]](#)

[Level 3, Unit 9 - Drawing and Planning Software \(4 credits\) \[99\]](#)

[Level 3, Unit 10 - Presentation Software \(6 credits\) \[103\]](#)

[Level 3, Unit 11 - Database Software \(6 credits\) \[107\]](#)

[Level 3, Unit 12 -](#)

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[13 - Computer Games Development \(2 credits\) \[108\]](#)

[Desktop Publishing Software \(3 credits\) \[109\]](#)

[Desktop Publishing Software \(4 credits\) \[110\]](#)

[Desktop Publishing Software \(5 credits\) \[111\]](#)

[Entry Level 1, Unit 14 - Video Communication \(2 credits\) \[112\]](#)

[Level 1, Unit 13 - Using Email \(2 credits\) \[113\]](#)

[Level 2, Unit 13 - Using Email \(3 credits\) \[114\]](#)

[Level 3, Unit 13 - Using Email \(3 credits\) \[115\]](#)

[Entry Level 1, Unit 29 - Understand social media \(2 credits\) \[116\]](#)

[Level 1, Unit 14 - Audio Software \(2 credits\) \[117\]](#)

[Level 2, Unit 14 - Audio Software \(3 credits\) \[118\]](#)

[Level 3, Unit 14 - Audio Software \(4 credits\) \[119\]](#)

[Entry Level 2, Unit R - Registration \[120\]](#)

[Level 1, Unit 15 - Imaging Software \(3 credits\) \[121\]](#)

[Level 2, Unit 15 - Imaging Software \(4 credits\) \[122\]](#)

[Level 3, Unit 15 - Imaging Software \(5 credits\) \[123\]](#)

[Entry Level 2, Unit 1 - Improving Productivity Using IT \(2 credits\) \[124\]](#)

[Level 1, Unit 16 - IT Communication Fundamentals \(2 credits\) \[125\]](#)

[Level 2, Unit 16 - IT Communication Fundamentals \(2 credits\) \[126\]](#)

[Level 3, Unit 17 - Video Software \(4 credits\) \[127\]](#)

[Entry Level 2, Unit 2 - Using ICT to Select and Exchange Information \(2 credits\) \[128\]](#)

[Level 1, Unit 17 - Video Software \(2 credits\) \[129\]](#)

[Level 2, Unit 17 - Video Software \(3 credits\) \[130\]](#)

[Level 3, Unit 23 - Multimedia Software \(6 credits\) \[131\]](#)

[Entry Level 2, Unit 3 - Online Basics \(2 credits\) \[132\]](#)

[Level 1, Unit 18 - IT Software Fundamentals \(3 credits\) \[133\]](#)

[Level 2, Unit 18 - IT Software Fundamentals \(3 credits\) \[134\]](#)

[Level 3, Unit 24 - Additive Manufacture \(6 credits\) \[135\]](#)

[Entry Level 2, Unit 4 - Desktop Publishing Software \(2 credits\) \[136\]](#)

[Level 1, Unit 19 - IT User Fundamentals \(3 credits\) \[137\]](#)

[Level 2, Unit 19 - IT User Fundamentals \(3 credits\) \[138\]](#)

[Level 3, Unit 27 - Design Software \(5 credits\) \[139\]](#)

[Entry Level 2, Unit 5 - Using ICT: Safe Working Practices \(1 credit\) \[140\]](#)

[Level 1, Unit 20 - Using Mobile IT Devices \(2 credits\) \[141\]](#)

[Level 2, Unit 20 - Using Mobile IT Devices \(2 credits\) \[142\]](#)

[Level 3, Unit 28 - Optimise IT System Performance \(5 credits\) \[143\]](#)

[Entry Level 2, Unit 6 - Using ICT in the Workplace \(3 credits\) \[144\]](#)

[Level 1, Unit 21 - Data Management Software \(2 credits\) \[145\]](#)

[Level 2, Unit 21 - Data Management Software \(3 credits\) \[146\]](#)

[Level 3, Unit 29 - Set Up an IT System \(5 credits\) \[147\]](#)

[Entry Level 2, Unit 7 - Imaging software \(2 credits\) \[148\]](#)

[Level 1, Unit 22 - Understanding the social and environmental impact of architecture and](#)

[Level 2, Unit 22 - Understanding the social and environmental impact of architecture and](#)

[Level 3, Unit 32 - Computerised Accounting Software \(5 credits\) \[151\]](#)

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	construction (3 credits) [149]	construction (4 credits) [150]	
Entry Level 2, Unit 8 - Using ICT Equipment in a Work Place (2 credits) [152]	Level 1, Unit 23 - Multimedia Software (3 credits) [153]	Level 2, Unit 23 - Multimedia Software (4 credits) [154]	Level 3, Unit 33 - Application Development Using Project Management Methods (6 credits) [155]
Entry Level 2, Unit 9 - Using Word Processing Software (2 credits) [156]	Level 1, Unit 24 - Additive Manufacture (3 credits) [157]	Level 2, Unit 24 - Additive Manufacture (3 credits) [158]	Level 3, Unit 37 - Internet of Things (6 credits) [159]
Entry Level 2, Unit 10 - ICT for Employment (1 credit) [160]	Level 1, Unit 25 - Developing Computer Games and Puzzles (4 credits) [161]	Level 2, Unit 25 - Developing Computer Games and Puzzles (4 credits) [162]	Level 3, Unit 40 - Cloud Based Services and Applications (5 credits) [163]
Entry Level 2, Unit 11 - Audio and Video Software (2 credits) [164]	Level 1, Unit 26 - Computer Games Development (3 credits) [165]	Level 2, Unit 26 - Computer Games Development (4 credits) [166]	Level 3, Unit 41 - Cloud Based Systems and Security (5 credits) [167]
Entry Level 2, Unit 12 - Presentation Software (2 credits) [168]	Level 1, Unit 27 - Design Software (3 credits) [169]	Level 2, Unit 27 - Design Software (4 credits) [170]	Level 3, Unit 42 - Undertaking a RealWorld Project (5 credits) [171]
Entry Level 2, Unit 14 - Video Communication (2 credits) [172]	Level 1, Unit 28 - Optimise IT System Performance (2 credits) [173]	Level 2, Unit 28 - Optimise IT System Performance (4 credits) [174]	Level 3, Unit 44 - Bespoke Software (4 credits) [175]
Entry Level 2, Unit 16 - Using Collaborative Technologies (2 credits) [176]	Level 1, Unit 29 - Set Up an IT System (3 credits) [177]	Level 2, Unit 29 - Set Up an IT System (4 credits) [178]	Level 3, Unit 57 - Networking Fundamentals (5 credits) [179]
Entry Level 2, Unit 26 - Computer Games Development (2 credits) [180]	Level 1, Unit 30 - CAD (3 credits) [181]	Level 2, Unit 30 - CAD (3 credits) [182]	Level 3, Unit 60 - Cisco CCNA 1 - Introduction to Networks (6 credits) [183]
Entry Level 2, Unit 29 - Understand social media (2 credits) [184]	Level 1, Unit 31 - Internet Safety for IT users (3 credits) [185]	Level 2, Unit 32 - Computerised Accounting Software (3 credits) [186]	Level 3, Unit 61 - Cisco CCNA 2 - Routing and Switching (6 credits) [187]
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[32 - Website Software \(2 credits\) \[188\]](#)

[Computerised Accounting Software \(2 credits\) \[189\]](#)

[Application Development Using Project Management Methods \(4 credits\) \[190\]](#)

[Cisco CCNA 3 - Scaling Networks \(6 credits\) \[191\]](#)

[Entry Level 2, Unit 36 - Specialist Software \(2 credits\) \[192\]](#)

[Level 1, Unit 36 - Financial Modelling \(3 credits\) \[193\]](#)

[Level 2, Unit 34 - Developing skills for project management \(4 credits\) \[194\]](#)

[Level 3, Unit 63 - Cisco CCNA 4 - Connecting Networks \(6 credits\) \[195\]](#)

[Entry Level 3, Unit R - Registration \[196\]](#)

[Level 1, Unit 38 - Animation Software \(3 credits\) \[197\]](#)

[Level 2, Unit 35 - Using Project Management Software \(4 credits\) \[198\]](#)

[Level 3, Unit 64 - Cisco - CCNA Security \(6 credits\) \[199\]](#)

[Entry Level 3, Unit 1 - Improving Productivity Using IT \(3 credits\) \[200\]](#)

[Level 1, Unit 39 - Digital Art \(3 credits\) \[201\]](#)

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[Entry Level 3, Unit 2 - Online Basics \(1 credit\) \[204\]](#)

[Level 1, Unit 43 - E-safety for learners \(2 credits\) \[205\]](#)

[Level 2, Unit 39 - Digital Art \(4 credits\) \[206\]](#)

[Level 3, Unit 66 - Cisco - IT Essentials \(6 credits\) \[207\]](#)

[Entry Level 3, Unit 3 - Desktop Publishing Software \(2 credits\) \[208\]](#)

[Level 1, Unit 50 - Developing skills for remote working \(3 credits\) \[209\]](#)

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[Entry Level 3, Unit 5 - Using ICT to Find Information \(3 credits\) \[215\]](#)

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[Entry Level 3, Unit 14 - Audio and Video Software \(2 credits\)](#)

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[Entry Level 3, Unit 15 - Imaging Software \(2 credits\)](#)

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[Entry Level 3, Unit 16 - Using Collaborative Technologies \(3 credits\)](#)

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[Entry Level 3, Unit 20 - Introduction to Using mobile IT devices \(2 credits\)](#)

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[Entry Level 3, Unit 23 - Multimedia Software \(2 credits\)](#)

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[Entry Level 3, Unit 25 - Developing Computer Games and Puzzles \(3 credits\)](#)

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- [3] <https://register.ofqual.gov.uk/Detail/Index/39391?category=qualifications&query=TLM%20Level%203%20Certificate%20in%20User%20Skills%20in%20Cloud%20Systems%20and%20Services%20%28ITQ%29>
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[86] <https://theingots.org/community/sil2u6>
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