

## 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.**



[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]

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

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

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

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

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

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

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

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

[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]

## 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**

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

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

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

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

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

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

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

- |   |   |   |   |  |
|---|---|---|---|--|
| <b>1. Research and plan a real-world project to apply my theoretical knowledge in a</b> | <b>2. Analyse the service and security requirements for the project to be a</b> | <b>3. Describe the application s and data requirements needed in line with client</b> | <b>4. Produce a project based on my research and unders tanding to meet the</b> | <b>5. Recommen d services and application s to meet client needs</b> |
|---|---|---|---|--|

practical way	success	needs and expectations and to cope with scaling and flexibility	client's needs
<a href="#">1.1 State the aims and objectives of the project</a> [44]	<a href="#">2.1 Identify the service requirements for the project</a> [45]	<a href="#">3.1 Identify a range of hardware and software solutions</a> [46]	<a href="#">4.1 Produce a working system to satisfy the client's needs and objectives set out in the planning process</a> [47]
<a href="#">1.2 Show a real need for the project undertaken</a> [49]	<a href="#">2.2 Identify the security requirements of the client</a> [50]	<a href="#">3.2 Explain the limitations and cost implications of each solution to the client</a> [51]	<a href="#">5.2 Test and evaluate the solution to meet the client's needs</a> [52]
<a href="#">1.3 Define the client base</a> [53]	<a href="#">2.3 Produce an outline plan for the project</a> [54]	<a href="#">3.3 Describe the back-up and disaster recovery processes to ensure system stability</a> [55]	<a href="#">5.3 Evaluate the solution with respect to local conventions and legal requirements</a> [56]
<a href="#">1.4 Provide a list of alternative solutions</a> [57]			
<a href="#">1.5 Evaluate the alternatives</a> [58]			

## Links to ITQ units

Entry Level	Level 1	Level 2	Level 3
<a href="#">Entry Level 1, Unit R - Registration</a> [60]	<a href="#">Level 1, Unit R - Registration</a> [61]	<a href="#">Level 2, Unit R - Registration</a> [62]	<a href="#">Level 3, Unit R - Registration</a> [63]
<a href="#">Entry Level 1, Unit 1 - Improving</a>	<a href="#">Level 1, Unit 1 - Improving</a>	<a href="#">Level 2, Unit 1 - Improving</a>	<a href="#">Level 3, Unit 1 - Improving</a>

## Level 3 Cloud Based Systems and Services

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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 -](#)

## Level 3 Cloud Based Systems and Services

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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 30 - Computer Aided Design \(6 credits\) \[151\]](#)

## Level 3 Cloud Based Systems and Services

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

## Level 3 Cloud Based Systems and Services

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[Entry Level 2, Unit 32 - Website Software \(2 credits\)](#) [188]

[Level 1, Unit 32 - Computerised Accounting Software \(2 credits\)](#) [189]

[Level 2, Unit 33 - Application Development Using Project Management Methods \(4 credits\)](#) [190]

[Level 3, Unit 61 - Cisco CCNA 2 - Routing and Switching \(6 credits\)](#) [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 62 - Cisco CCNA 3 - Scaling 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 63 - Cisco CCNA 4 - Connecting Networks \(6 credits\)](#) [199]

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

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

[Level 2, Unit 38 - Animation Software \(4 credits\)](#) [202]

[Level 3, Unit 64 - Cisco - CCNA Security \(6 credits\)](#) [203]

[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 65 - Cisco - CyberSecurity 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]

[Level 2, Unit 43 - E-safety for learners \(3 credits\)](#) [210]

[Level 3, Unit 66 - Cisco - IT Essentials \(6 credits\)](#) [211]

[Entry Level 3, Unit 4 - Displaying Information Using ICT \(3 credits\)](#) [212]

[Level 1, Unit 51 - Effectiveness communication using remote systems \(4 credits\)](#) [213]

[Level 2, Unit 50 - Developing skills for remote working \(3 credits\)](#) [214]

[Level 3, Unit 67 - Cisco - Networking Essentials \(6 credits\)](#) [215]

[Entry Level 3, Unit 5 - Using ICT to Find Information \(3 credits\)](#) [216]

[Level 1, Unit 102 - Digital Editing and Publishing \(4 credits\)](#) [217]

[Level 2, Unit 51 - Effectiveness communication using remote systems \(4 credits\)](#) [218]

[Entry Level 3, Unit 6 - Communicating Information Using ICT \(3 credits\)](#) [219]

[Level 1, Unit 103 - Digital Modelling \(4 credits\)](#) [220]

[DELLevel 2, Unit 70 - Understanding of Cyber Security and Online Threats \(3 credits\)](#) [221]

[Entry Level 3, Unit](#)

[Level 1, Unit 105 -](#)

[DELLevel 2, Unit](#)

## Level 3 Cloud Based Systems and Services

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[7 - Producing Charts Using ICT \(3 credits\)](#)  
[222]

[Digital Design and Graphics \(4 credits\)](#)  
[223]

[71 - Analysing and Evaluating Cyber Threats \(3 credits\)](#)  
[224]

[Entry Level 3, Unit 8 - IT Security for users \(1 credit\)](#)  
[225]

[DELLevel 2, Unit 72 - Applying and Deploying Security Tools and Best Practice \(3 credits\)](#)  
[226]

[Entry Level 3, Unit 10 - Presentation software \(2 credits\)](#)  
[227]

[DELLevel 2, Unit 73 - Extended Project: Securing and Defending Online Systems \(6 credits\)](#) [228]

[Entry Level 3, Unit 14 - Audio and Video Software \(2 credits\)](#) [229]

[Level 2, Unit 80 - Digital Tools and Best Practice for Project Management \(5 credits\)](#) [230]

[Entry Level 3, Unit 15 - Imaging Software \(2 credits\)](#)  
[231]

[Level 2, Unit 81 - Digital Safety and Security Policies and Procedures \(4 credits\)](#) [232]

[Entry Level 3, Unit 16 - Using Collaborative Technologies \(3 credits\)](#) [233]

[Level 2, Unit 82 - Digital Editing and Publishing \(3 credits\)](#) [234]

[Entry Level 3, Unit 20 - Introduction to Using mobile IT devices \(2 credits\)](#)  
[235]

[Level 2, Unit 83 - Digital Design and Graphics \(3 credits\)](#)  
[236]

[Entry Level 3, Unit 23 - Multimedia Software \(2 credits\)](#)  
[237]

[Level 2, Unit 84 - Digital Modelling and Data Management \(3 credits\)](#) [238]

[Entry Level 3, Unit 25 - Developing Computer Games and Puzzles \(3 credits\)](#) [239]

[Level 2, Unit 85 - Virtual Reality and the Development Life Cycle \(4 credits\)](#)  
[240]

[Entry Level 3, Unit](#)

[26 - Computer Games Development \(3 credits\)](#) [241]

[Entry Level 3. Unit 28 - Personal information management software \(1 credit\)](#) [242]

[Entry Level 3. Unit 32 - Website Software \(2 credits\)](#) [243]

[Entry Level 3. Unit 36 - Specialist Software \(2 credits\)](#) [192]

**Source URL:** <https://theingots.org/community/cloud>

### Links

- [1] [https://theingots.org/community/sites/default/files/uploads/user4107/Handbook\\_2016\\_L3\\_Cert-Dip\\_1.1.1.pdf](https://theingots.org/community/sites/default/files/uploads/user4107/Handbook_2016_L3_Cert-Dip_1.1.1.pdf)
- [2] <https://register.ofqual.gov.uk/Detail/Index/37768?category=qualifications&query=TLM%20Level%203%20Certificate%20in%20User%20Skills%20in%20Cloud%20Systems%20and%20Services%20%28ITQ%29>
- [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>
- [4] [https://theingots.org/community/RQF\\_Levels](https://theingots.org/community/RQF_Levels)
- [5] <https://theingots.org/community/sil3u40x#1.1>
- [6] <https://theingots.org/community/sil3u40x#2.1>
- [7] <https://theingots.org/community/sil3u40x#3.1>
- [8] <https://theingots.org/community/sil3u40x#1.2>
- [9] <https://theingots.org/community/sil3u40x#2.2>
- [10] <https://theingots.org/community/sil3u40x#3.2>
- [11] <https://theingots.org/community/sil3u40x#1.3>
- [12] <https://theingots.org/community/sil3u40x#2.3>
- [13] <https://theingots.org/community/sil3u40x#3.3>
- [14] <https://theingots.org/community/sil3u40x#1.4>
- [15] <https://theingots.org/community/sil3u40x#2.4>
- [16] <https://theingots.org/community/sil3u40x#3.4>
- [17] <https://theingots.org/community/sil3u40x#1.5>
- [18] <https://theingots.org/community/sil3u40x#2.5>
- [19] <https://theingots.org/community/sil3u40x#3.5>
- [20] <https://theingots.org/community/sil3u40x#2.6>
- [21] <https://theingots.org/community/sil3u40x#2.7>
- [22] <https://theingots.org/community/sil3u40x#2.8>
- [23] <https://theingots.org/community/sil3u40i>
- [24] <https://theingots.org/community/sil3u41x#1.1>

[25] <https://theingots.org/community/sil3u41x#2.1>  
[26] <https://theingots.org/community/sil3u41x#3.1>  
[27] <https://theingots.org/community/sil3u41x#1.2>  
[28] <https://theingots.org/community/sil3u41x#2.2>  
[29] <https://theingots.org/community/sil3u41x#3.2>  
[30] <https://theingots.org/community/sil3u41x#1.3>  
[31] <https://theingots.org/community/sil3u41x#2.3>  
[32] <https://theingots.org/community/sil3u41x#3.3>  
[33] <https://theingots.org/community/sil3u41x#1.4>  
[34] <https://theingots.org/community/sil3u41x#2.4>  
[35] <https://theingots.org/community/sil3u41x#3.4>  
[36] <https://theingots.org/community/sil3u41x#1.5>  
[37] <https://theingots.org/community/sil3u41x#2.5>  
[38] <https://theingots.org/community/sil3u41x#3.5>  
[39] <https://theingots.org/community/sil3u41x#1.6>  
[40] <https://theingots.org/community/sil3u41x#2.6>  
[41] <https://theingots.org/community/sil3u41x#3.6>  
[42] <https://theingots.org/community/sil3u41x#2.7>  
[43] <https://theingots.org/community/sil3u41i>  
[44] <https://theingots.org/community/sil3u42x#1.1>  
[45] <https://theingots.org/community/sil3u42x#2.1>  
[46] <https://theingots.org/community/sil3u42x#3.1>  
[47] <https://theingots.org/community/sil3u42x#4.1>  
[48] <https://theingots.org/community/sil3u42x#5.1>  
[49] <https://theingots.org/community/sil3u42x#1.2>  
[50] <https://theingots.org/community/sil3u42x#2.2>  
[51] <https://theingots.org/community/sil3u42x#3.2>  
[52] <https://theingots.org/community/sil3u42x#5.2>  
[53] <https://theingots.org/community/sil3u42x#1.3>  
[54] <https://theingots.org/community/sil3u42x#2.3>  
[55] <https://theingots.org/community/sil3u42x#3.3>  
[56] <https://theingots.org/community/sil3u42x#5.3>  
[57] <https://theingots.org/community/sil3u42x#1.4>  
[58] <https://theingots.org/community/sil3u42x#1.5>  
[59] <https://theingots.org/community/sil3u42i>  
[60] <https://theingots.org/community/siel1u0reg>  
[61] <https://theingots.org/community/sil1u0reg>  
[62] <https://theingots.org/community/sil2u0reg>  
[63] <https://theingots.org/community/sil3u0reg>  
[64] <https://theingots.org/community/siel1u1>  
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[136] <https://theingots.org/community/siel2u4>  
[137] <https://theingots.org/community/sil1u19>  
[138] <https://theingots.org/community/sil2u19>  
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[140] <https://theingots.org/community/siel2u5>  
[141] <https://theingots.org/community/sil1u20>  
[142] <https://theingots.org/community/sil2u20>

## Level 3 Cloud Based Systems and Services

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[143] <https://theingots.org/community/sil3U28>  
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[145] <https://theingots.org/community/sil1u21>  
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[147] <https://theingots.org/community/sil3u29>  
[148] <https://theingots.org/community/siel2u7>  
[149] <https://theingots.org/community/sil1u22>  
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[151] <https://theingots.org/community/sil3u30>  
[152] <https://theingots.org/community/siel2u8>  
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[156] <https://theingots.org/community/siel2u9>  
[157] <https://theingots.org/community/sil1u24>  
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[195] <https://theingots.org/community/sil3u62>  
[196] <https://theingots.org/community/siel3u0reg>  
[197] <https://theingots.org/community/sil1u38>  
[198] <https://theingots.org/community/sil2u35>  
[199] <https://theingots.org/community/sil3u63>  
[200] <https://theingots.org/community/siel3u1>  
[201] <https://theingots.org/community/sil1u39>

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(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)})(window,document,'script','/www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');
```

## Level 3 Cloud Based Systems and Services

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[202] <https://theingots.org/community/sil2u38>  
[203] <https://theingots.org/community/sil3u64>  
[204] <https://theingots.org/community/siel3u2>  
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[212] [https://theingots.org/community/siel3u\\_noprogression\\_1169](https://theingots.org/community/siel3u_noprogression_1169)  
[213] <https://theingots.org/community/sil1u51>  
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