## 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.


## 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]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]
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]
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)

\author{

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

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

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

| practical way | success |
| :---: | :---: |
| 1.1 State the | 2.1 Identify |
| aims and | the service |
| objectives of | requirements |
| the project [44] | for the project [45] |

## needs and <br> expectatio ns and to cope with scaling and flexibility

3.1 Identify a range of hardware and software solutions [46]

## client's needs

4.1 Produce a working system to satisfy the client's needs and objectives set out in the planning process [47]

$$
\begin{aligned}
& \begin{array}{l}
1.2 \text { Show a } \\
\text { real need for } \\
\text { the project } \\
\text { undertaken } \\
{[49]}
\end{array}
\end{aligned}
$$

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]
3.3 Describe the back-up and disaster recovery processes to ensure system stability [55]
5.1 Evaluate the solution with respect to the client budget [48]
5.2 Test and evaluate the solution to meet the client's needs [52]
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]
1.3 Define the client base [53]
2.3 Produce an outline plan for the project [54]

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
$\underline{11-A u d i o ~ a n d ~}$
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]

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]

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]

Entry Level 1, Unit
Level 1, Unit 12 -
Level 2, Unit 12 -
Level 3, Unit 12 -

## 13 - Computer

Games
Development (2
credits) [108]
Entry Level 1, Unit 14 - Video
Communication (2 credits) [112]

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

Entry Level 2, Unit R - Registration [120]

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

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

$$
\begin{aligned}
& \text { Entry Level 2, Unit } \\
& 3 \text {-Online Basics (2 } \\
& \text { credits) [132] }
\end{aligned}
$$

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

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

Entry Level 2, Unit 6 - Using ICT in the Workplace (3
credits) [144]
Entry Level 2, Unit
7-Imaging
software (2 credits) [148]

Desktop Publishing
Software (3 credits) [109]

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

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

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

Level 1, Unit 16 IT Communication
Fundamentals (2
credits) [125]
Level 1, Unit 17 Video Software (2 credits) [129]

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

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

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

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

Level 1, Unit 22Understanding the social and environmental impact of architecture and

Desktop Publishing Software (4 credits) [110]

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

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

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

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

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

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

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

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

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

> Level 2, Unit 22
> -Understanding the
> social and
> environmental
> impact of
> architecture and

Desktop Publishing Software (5 credits) [111]

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

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

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

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

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

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

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

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

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

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

Entry Level 2, Unit 8 - Using ICT Equipment in a Work Place (2 credits) [152]

Entry Level 2, Unit 9 - Using Word Processing Software (2 credits) [156]

Entry Level 2, Unit 10 - ICT for Employment (1 credit) [160]

Entry Level 2, Unit 11-Audio and Video Software (2 credits) [164]

Entry Level 2, Unit 12-Presentation Software (2 credits) [168]

Entry Level 2, Unit 14 - Video Communication (2 credits) [172]

Entry Level 2, Unit 16 - Using Collaborative Technologies (2 credits) [176]

Entry Level 2, Unit 26 - Computer Games
Development (2 credits) [180]

Entry Level 2, Unit 29 - Understand social media (2 credits) [184]
construction (3 construction (4
credits) [149] credits) [150]
Level 1, Unit 23 -
Multimedia Software
(3 credits) [153]

Level 1, Unit 24 Additive
Manufacture (3 credits) [157]

Level 1, Unit 25 Developing Computer Games and Puzzles (4 credits) [161]

Level 1, Unit 26 Computer Games Development (3 credits) [165]

Level 1, Unit 27 Design Software (3 credits) [169]

Level 1, Unit 28 Optimise IT System Performance (2 credits) [173]

Level 1, Unit 29 Set Up an IT System (3 credits) [177]
$\frac{\text { Level 1, Unit } 30-}{\text { CAD (3 credits) }}$
$[181]$

Level 2, Unit 30 CAD (3 credits) [182]

Level 2, Unit 29 Set Up an IT System (4 credits) [178]
Level 2, Unit 23 -
Multimedia Software
(4 credits) [154]

Level 2, Unit 24 Additive
Manufacture ( 3 credits) [158]

Level 2, Unit 25 Developing Computer Games and Puzzles (4 credits) [162]

Level 2, Unit 26 Computer Games Development (4 credits) [166]

Level 2, Unit 27 Design Software (4 credits) [170]

Level 2, Unit 28 Optimise IT System Performance (4 credits) [174]

Level 3, Unit 33 -

Application
Development Using Project
Management
Methods ( 6 credits) [155]

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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]

Entry Level 2, Unit
Level 1, Unit 32 -
Level 2, Unit 33 -
Level 3, Unit 62 -
Computerised
Accounting
Software ( 2 credits)
$[189]$

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

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

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

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

Level 2, Unit 35 Using Project Management
32 - Website
Software (2 credits)
[188]

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

Entry Level 3, Unit R-Registration [196]

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

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

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

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

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

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

Level 1, Unit 43 - E- Level 2, Unit 39 safety for learners (2 credits) [205]

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

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

Level 1, Unit 102 Digital Editing and Publishing (4 credits) [216] Software (4 credits) [198]

Level 2, Unit 38 Animation Software (4 credits) [202] Digital Art (4 credits) [206]

Level 2, Unit 43 - Esafety for learners (3 credits) [210]

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

Level 2, Unit 51 Effectiveness communication using remote systems (4 credits) [217]

Level 1, Unit 103 Digital Modelling (4 credits) [219] Communicating Information Using ICT (3 credits) [218]

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Entry Level 3, Unit 7 - Producing Charts Using ICT (3 credits)

Level 1, Unit 105 Digital Design and Graphics (4 credits)

Cisco CCNA 3 -
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Level 3, Unit 65 Cisco CyberSecurity Essentials (6 credits) [203]

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Level 3, Unit 67 -
Cisco - Networking Essentials (6 credits) [211]

## Level 3 Cloud Based Systems and Services

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Threats (3 credits) [223]

Entry Level 3, Unit 8 - IT Security for users (1 credit) [224]

Entry Level 3, Unit 10 - Presentation software ( 2 credits) [226]

Entry Level 3, Unit
14 - Audio and Video Software (2 credits) [228]

Entry Level 3, Unit
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Software (2 credits) [230]

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Technologies (3
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Entry Level 3, Unit
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Entry Level 3, Unit 23 - Multimedia Software (2 credits) [236]

Entry Level 3, Unit
25 - Developing Computer Games and Puzzles (3 credits) [238]

Entry Level 3, Unit 26-Computer Games

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Level 2, Unit 81 Digital Safety and Security Policies and Procedures (4 credits) [231]

Level 2, Unit 82 Digital Editing and Publishing (3 credits) [233]

Level 2, Unit 83 Digital Design and Graphics (3 credits) [235]

Level 2, Unit 84 Digital Modelling and Data Management (3 credits) [237]

Level 2, Unit 85 Virtual Reality and the Development Life Cycle (4 credits) [239]

Development (3 credits) [240]

Entry Level 3, Unit
28 - Personal information management software (1 credit) [241]

Entry Level 3, Unit
32 - Website
Software (2 credits) [242]

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_CertDip_1.1.pdf
[2] https://register.ofqual.gov.uk/Detail/Index/37768?category=qualifications\&query=TLM\ L evel\%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\ L evel\%203\%20Certificate\%20in\%20User\%20Skills\%20in\%20Cloud\%20Systems\%20and\%20Services\% 20\%28ITQ\%29
[4] https://theingots.org/community/RQF_Levels
[5] https://theingots.org/community/sil3u40x\#1.1
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## Level 3 Cloud Based Systems and Services

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