Platinum - Unit 37 - Internet of Things (6 credits)

BACK TO SCHOOLS ITQ **[1]**

Handbook home page **[2]**

- General guidance for interpreting QCF qualification levels [3]
- **Link to assessor's guide to interpreting the criteria for this unit** [4]
- Click on the links in the table below for specific guidance on the assessment criteria.
- National Strategies APP criteria [5].
- References to personal learning and thinking skills (PLTS) [6]
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Level 3, Unit 37 - Internet of Things (6 credits)

1. Investigate IoT applications and platforms	2. Connect to a network	3. Prototype an IoT device
1.1 Research applications of IoT [7]	2.1 Use a suitable programing language to implement a network client [8]	3.1 Design an IoT device [9]
1.2 Identify IoT platform features [10]	2.2 Build a simple server to support a client [11]	3.2 Develop and test software on the target IoT development hardware [12]
1.3 Understand the architecture of networks [13]	2.3 Use a communication interface between two applications across a network [14]	3.3 Integrate prototype software and hardware [15]
1.4 Identify IoT security issues [16]	2.4 Implement low power features [17]	3.4 Debug device end-to-end across network and hardware [18]
1.5 Compare and evaluate different IoT platforms [19]	2.5 Use internet services to connect devices across a network [20]	3.5 Evaluate successes and learning points [21]

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Links to ITQ units

Entry Level	Level 1	Level 2	Level 3
Entry Level 1, Unit R - Registration [23]	Level 1, Unit R - Registration [24]	Level 2, Unit R - Registration [25]	Level 3, Unit R - Registration [26]
Entry Level 1, Unit 1 - Improving Productivity Using IT (1 credit) [27]	Level 1, Unit 1 - Improving Productivity Using IT (3 credits) [28]	Level 2, Unit 1 - Improving Productivity Using IT (4 credits) [29]	Level 3, Unit 1 - Improving Productivity Using IT (5 credits) [30]
Entry Level 1, Unit 2 - Using ICT to Select and Exchange Information (2 credits) [31]	Level 1, Unit 2 - Website Software (3 credits) [32]	Level 2, Unit 2 - Website Software (4 credits) [33]	Level 3, Unit 2 - Website Software (5 credits) [34]
Entry Level 1, Unit 3 - Online Basics (2 credits) [35]	Level 1, Unit 3 - Using Collaborative Technologies (3 credits) [36]	Level 2, Unit 3 - Using Collaborative Technologies (4 credits) [37]	Level 3, Unit 3 - Using Collaborative Technologies (6 credits) [38]
Entry Level 1, Unit 4 - Desktop Publishing Software (2 credits) [39]	Level 1, Unit 4 - IT Security for Users (1 credit) [40]	Level 2, Unit 4 - IT Security for Users (2 credits) [41]	Level 3, Unit 4 - IT Security for Users (3 credits) [42]
Entry Level 1, Unit 5 - Safe Working Practices (2 credits) [43]	Level 1, Unit 5 - Spreadsheet Software (3 credits) [44]	Level 2, Unit 5 - Spreadsheet Software (4 credits) [45]	Level 3, Unit 5 - Spreadsheet Software (6 credits) [46]
Entry Level 1, Unit 6 - Using ICT in the Workplace (2 credits) [47]	Level 1, Unit 6 - Specialist Software (2 credits) [48]	Level 2, Unit 6 - Specialist software (3 credits) [49]	Level 3, Unit 6 - Specialist Software (4 credits) [50]
Entry Level 1, Unit 7 - Imaging software (2 credits) [51]	Level 1, Unit 7 - Word Processing (3 credits) [52]	Level 2, Unit 7 - Word processing (4 credits) [53]	Level 3, Unit 7 - Word Processing Software (6 credits) [54]
Entry Level 1, Unit 8 - Using ICT Equipment in a Work Place (2 credits) [55]	Level 1, Unit 8 - Using the Internet (3 credits) [56]	Level 2, Unit 8 - Using the internet (4 credits) [57]	Level 3, Unit 8 - Using the Internet (5 credits) [58]
Entry Level 1, Unit 9 - Using Word Processing	Level 1, Unit 9 - Drawing and planning (2	Level 2, Unit 9 - Drawing and planning (3	Level 3, Unit 9 - Drawing and Planning Software

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Software (2 credits) [59]
credits) [60]
credits) [61]
(4 credits) [62]

Entry Level 1, Unit 11 - Audio and Video Software (2 credits) [63]
Level 1, Unit 10 - Presentation Software (3 credits) [64]
Level 2, Unit 10 - Presentation software (4 credits) [65]
Level 3, Unit 10 - Presentation Software (6 credits) [66]

Entry Level 1, Unit 12 - Presentation Software (2 credits) [67]
Level 1, Unit 11 - Database Software (3 credits) [68]
Level 2, Unit 11 - Database software (4 credits) [69]
Level 3, Unit 11 - Database Software (6 credits) [70]

Entry Level 1, Unit 13 - Computer Games Development (2 credits) [71]
Level 1, Unit 12 - Desktop Publishing Software (3 credits) [72]
Level 2, Unit 12 - Desktop Publishing Software (4 credits) [73]
Level 3, Unit 12 - Desktop Publishing Software (5 credits) [74]

Entry Level 1, Unit 14 - Video Communication (2 credits) [75]
Level 1, Unit 13 - Using Email (2 credits) [76]
Level 2, Unit 13 - Using Email (3 credits) [77]
Level 3, Unit 13 - Using Email (3 credits) [78]

Entry Level 1, Unit 29 - Understand social media (2 credits) [79]
Level 1, Unit 14 - Audio Software (2 credits) [80]
Level 2, Unit 14 - Audio Software (3 credits) [81]
Level 3, Unit 14 - Audio Software (4 credits) [82]

Entry Level 2, Unit R - Registration [83]
Level 1, Unit 15 - Imaging Software (3 credits) [84]
Level 2, Unit 15 - Imaging Software (4 credits) [85]
Level 3, Unit 15 - Imaging Software (5 credits) [86]

Entry Level 2, Unit 1 - Improving Productivity Using IT (2 credits) [87]
Level 1, Unit 16 - IT Communication Fundamentals (2 credits) [88]
Level 2, Unit 16 - IT Communication Fundamentals (2 credits) [89]
Level 3, Unit 17 - Video Software (4 credits) [90]

Entry Level 2, Unit 2 - Using ICT to Select and Exchange Information (2 credits) [91]
Level 1, Unit 17 - Video Software (2 credits) [92]
Level 2, Unit 17 - Video Software (3 credits) [93]
Level 3, Unit 23 - Multimedia Software (6 credits) [94]

Entry Level 2, Unit 3 - Online Basics (2 credits) [95]
Level 1, Unit 18 - IT Software Fundamentals (3 credits) [96]
Level 2, Unit 18 - IT Software Fundamentals (3 credits) [97]
Level 3, Unit 24 - Additive Manufacture (6 credits) [98]

Entry Level 2, Unit 4 -Desktop Publishing Software (2
Level 1, Unit 19 - IT User Fundamentals (3 credits) [100]
Level 2, Unit 19 - IT User Fundamentals (3 credits) [101]
Level 3, Unit 27 - Design Software (5 credits) [102]

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credits) [99]

Entry Level 2, Unit 5 - Using ICT: Safe Working Practices (1 credit) [103]	Level 1, Unit 20 - Using Mobile IT Devices (2 credits) [104]	Level 2, Unit 20 - Using Mobile IT Devices (2 credits) [105]	Level 3, Unit 28 - Optimise IT System Performance (5 credits) [106]
Entry Level 2, Unit 6 - Using ICT in the Workplace (3 credits) [107]	Level 1, Unit 21 - Data Management Software (2 credits) [108]	Level 2, Unit 21 - Data Management Software (3 credits) [109]	Level 3, Unit 29 - Set Up an IT System (5 credits) [110]
Entry Level 2, Unit 7 - Imaging software (2 credits) [111]	Level 1, Unit 22- Understanding the social and environmental impact of architecture and construction (3 credits) [112]	Level 2, Unit 22 -Understanding the social and environmental impact of architecture and construction (4 credits) [113]	Level 3, Unit 30 - Computer Aided Design (6 credits) [114]
Entry Level 2, Unit 8 - Using ICT Equipment in a Work Place (2 credits) [115]	Level 1, Unit 23 - Multimedia Software (3 credits) [116]	Level 2, Unit 23 - Multimedia Software (4 credits) [117]	Level 3, Unit 32 - Computerised Accounting Software (5 credits) [118]
Entry Level 2, Unit 9 - Using Word Processing Software (2 credits) [119]	Level 1, Unit 24 - Additive Manufacture (3 credits) [120]	Level 2, Unit 24 - Additive Manufacture (3 credits) [121]	Level 3, Unit 33 - Application Development Using Project Management Methods (6 credits) [122]
Entry Level 2, Unit 10 - ICT for Employment (1 credit) [123]	Level 1, Unit 25 - Developing Computer Games and Puzzles (4 credits) [124]	Level 2, Unit 25 - Developing Computer Games and Puzzles (4 credits) [125]	Level 3, Unit 37 - Internet of Things (6 credits) [126]
Entry Level 2, Unit 11 - Audio and Video Software (2 credits) [127]	Level 1, Unit 26 - Computer Games Development (3 credits) [128]	Level 2, Unit 26 - Computer Games Development (4 credits) [129]	Level 3, Unit 40 - Cloud Based Services and Applications (5 credits) [130]
Entry Level 2, Unit 12 - Presentation Software (2 credits) [131]	Level 1, Unit 27 - Design Software (3 credits) [132]	Level 2, Unit 27 - Design Software (4 credits) [133]	Level 3, Unit 41 - Cloud Based Systems and Security (5 credits) [134]
Entry Level 2, Unit 14 - Video Communication (2	Level 1, Unit 28 - Optimise IT System	Level 2, Unit 28 - Optimise IT System	Level 3, Unit 42 - Undertaking a RealWorld Project

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credits) [135]

Performance (2 credits) [136]

Performance (4 credits) [137]

(5 credits) [138]

Entry Level 2, Unit 16 - Using Collaborative Technologies (2 credits) [139]

Level 1, Unit 29 - Set Up an IT System (3 credits) [140]

Level 2, Unit 29 - Set Up an IT System (4 credits) [141]

Level 3, Unit 44 - Bespoke Software (4 credits) [142]

Entry Level 2, Unit 26 - Computer Games Development (2 credits) [143]

Level 1, Unit 30 - CAD (3 credits) [144]

Level 2, Unit 30 - CAD (3 credits) [145]

Level 3, Unit 57 - Networking Fundamentals (5 credits) [146]

Entry Level 2, Unit 29 - Understand social media (2 credits) [147]

Level 1, Unit 31 - Internet Safety for IT users (3 credits) [148]

Level 2, Unit 32 - Computerised Accounting Software (3 credits) [149]

Level 3, Unit 60 - Cisco CCNA 1 – Introduction to Networks (6 credits) [150]

Entry Level 2, Unit 32 - Website Software (2 credits) [151]

Level 1, Unit 32 - Computerised Accounting Software (2 credits) [152]

Level 2, Unit 33 - Application Development Using Project Management Methods (4 credits) [153]

Level 3, Unit 61 - Cisco CCNA 2 – Routing and Switching (6 credits) [154]

Entry Level 2, Unit 36 - Specialist Software (2 credits) [155]

Level 1, Unit 36 - Financial Modelling (3 credits) [156]

Level 2, Unit 34 - Developing skills for project management (4 credits) [157]

Level 3, Unit 62 - Cisco CCNA 3 – Scaling Networks (6 credits) [158]

Entry Level 3, Unit R - Registration [159]

Level 1, Unit 38 - Animation Software (3 credits) [160]

Level 2, Unit 35 - Using Project Management Software (4 credits) [161]

Level 3, Unit 63 - Cisco CCNA 4 – Connecting Networks (6 credits) [162]

Entry Level 3, Unit 1 - Improving Productivity Using IT (3 credits) [163]

Level 1, Unit 39 - Digital Art (3 credits) [164]

Level 2, Unit 38 - Animation Software (4 credits) [165]

Level 3, Unit 64 - Cisco – CCNA Security (6 credits) [166]

Entry Level 3, Unit 2 - Online Basics (1 credit) [167]

Level 1, Unit 43 - E-safety for learners (2 credits) [168]

Level 2, Unit 39 - Digital Art (4 credits) [169]

Level 3, Unit 65 - Cisco – CyberSecurity Essentials (6 credits) [170]

Entry Level 3, Unit 3 - Desktop Publishing Software (2 credits) [171]

Level 1, Unit 50 - Developing skills for remote working (3 credits) [172]

Level 2, Unit 43 - E-safety for learners (3 credits) [173]

Level 3, Unit 66 - Cisco – IT Essentials (6 credits) [174]

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Entry Level 3, Unit 4 - Displaying Information Using ICT (3 credits) [175]

Level 1, Unit 51 - Effectiveness communication using remote systems (4 credits) [176]

Level 2, Unit 50 - Developing skills for remote working (3 credits) [177]

Level 3, Unit 67 - Cisco – Networking Essentials (6 credits) [178]

Entry Level 3, Unit 5 - Using ICT to Find Information (3 credits) [179]

Level 1, Unit 102 - Digital Editing and Publishing (4 credits) [180]

Level 2, Unit 51 - Effectiveness communication using remote systems (4 credits) [181]

Entry Level 3, Unit 6 - Communicating Information Using ICT (3 credits) [182]

Level 1, Unit 103 - Digital Modelling (4 credits) [183]

DELLevel 2, Unit 70 - Understanding of Cyber Security and Online Threats (3 credits) [184]

Entry Level 3, Unit 7 - Producing Charts Using ICT (3 credits) [185]

Level 1, Unit 105 - Digital Design and Graphics (4 credits) [186]

DELLevel 2, Unit 71 - Analysing and Evaluating Cyber Threats (3 credits) [187]

Entry Level 3, Unit 8 - IT Security for users (1 credit) [188]

DELLevel 2, Unit 72 - Applying and Deploying Security Tools and Best Practice (3 credits) [189]

Entry Level 3, Unit 10 - Presentation software (2 credits) [190]

DELLevel 2, Unit 73 - Extended Project: Securing and Defending Online Systems (6 credits) [191]

Entry Level 3, Unit 14 - Audio and Video Software (2 credits) [192]

Level 2, Unit 80 - Digital Tools and Best Practice for Project Management (5 credits) [193]

Entry Level 3, Unit 15 - Imaging Software (2 credits) [194]

Level 2, Unit 81 - Digital Safety and Security Policies and Procedures (4 credits) [195]

Entry Level 3, Unit 16 - Using

Level 2, Unit 82 - Digital Editing and

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Collaborative Technologies (3 credits) [196]

Entry Level 3, Unit 20 - Introduction to Using mobile IT devices (2 credits) [198]

Entry Level 3, Unit 23 - Multimedia Software (2 credits) [200]

Entry Level 3, Unit 25 - Developing Computer Games and Puzzles (3 credits) [202]

Entry Level 3, Unit 26 - Computer Games Development (3 credits) [204]

Entry Level 3, Unit 28 - Personal information management software (1 credit) [205]

Entry Level 3, Unit 32 - Website Software (2 credits) [206]

Entry Level 3, Unit 36 - Specialist Software (2 credits) [155]

Publishing (3 credits) [197]

Level 2, Unit 83 - Digital Design and Graphics (3 credits) [199]

Level 2, Unit 84 - Digital Modelling and Data Management (3 credits) [201]

Level 2, Unit 85 - Virtual Reality and the Development Life Cycle (4 credits) [203]

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Links
[1] https://theingots.org/community/ITQ_unit_development

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[2] https://theingots.org/community/handbook2
[3] https://theingots.org/community/QCF_levels
[4] https://theingots.org/community/SIL3U37X
[5] http://nationalstrategies.standards.dcsf.gov.uk/focuses/959/861/110166
[6] http://curriculum.qcda.gov.uk/key-stages-3-and-4/skills/plts/planning-for-plts/index.aspx
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[62] https://theingots.org/community/sil3u9
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[133] https://theingots.org/community/sil2u27
[134] https://theingots.org/community/sil3u41
[135] https://theingots.org/community/siel2u14
[136] https://theingots.org/community/sil1u28
[137] https://theingots.org/community/sil2u28
[138] https://theingots.org/community/sil3u42
[139] https://theingots.org/community/siel2u16
[140] https://theingots.org/community/sil1u29
[141] https://theingots.org/community/sil2u29
[142] https://theingots.org/community/sil3u44
[143] https://theingots.org/community/siel2u26
[144] https://theingots.org/community/sil1u30
[145] https://theingots.org/community/sil2u30
[146] https://theingots.org/community/sil3u57
[147] https://theingots.org/community/siel2u29
[148] https://theingots.org/community/sil1u31
[149] https://theingots.org/community/sil2u32
[150] https://theingots.org/community/sil3u60
[151] https://theingots.org/community/siel2u32
[152] https://theingots.org/community/sil1u32
[153] https://theingots.org/community/sil2u33
[154] https://theingots.org/community/sil3u61
[155] https://theingots.org/community/siel3u36
[156] https://theingots.org/community/sil1u36
[157] https://theingots.org/community/sil2u34
[158] https://theingots.org/community/sil3u62
[159] https://theingots.org/community/siel3u0reg
[160] https://theingots.org/community/sil1u38
[161] https://theingots.org/community/sil2u35
[162] https://theingots.org/community/sil3u63
[163] https://theingots.org/community/siel3u1
[164] https://theingots.org/community/sil1u39
[165] https://theingots.org/community/sil2u38
[166] https://theingots.org/community/sil3u64
[167] https://theingots.org/community/siel3u2
[168] https://theingots.org/community/sil1u43
[169] https://theingots.org/community/sil2u39
[170] https://theingots.org/community/sil3u65
[171] https://theingots.org/community/siel3u3
[172] https://theingots.org/community/sil1u50
[173] https://theingots.org/community/sil2u43
[174] https://theingots.org/community/sil3u66
[175] https://theingots.org/community/siel3u_noprogression_1169
[176] https://theingots.org/community/sil1u51
[177] https://theingots.org/community/sil2u50
[178] https://theingots.org/community/sil3u67

(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');

[179] https://theingots.org/community/siel3u5
[180] https://theingots.org/community/sil1u102
[181] https://theingots.org/community/sil2u51
[182] https://theingots.org/community/siel3u6
[183] https://theingots.org/community/sil1u103
[184] https://theingots.org/community/sil2u70
[185] https://theingots.org/community/siel3u7
[186] https://theingots.org/community/sil1u105
[187] https://theingots.org/community/sil2u71
[188] https://theingots.org/community/siel3u4
[189] https://theingots.org/community/sil2u72
[190] https://theingots.org/community/siel3u10
[191] https://theingots.org/community/sil2u73
[192] https://theingots.org/community/siel3u14
[193] https://theingots.org/community/sil2u80
[194] https://theingots.org/community/siel3u15
[195] https://theingots.org/community/sil2u81
[196] https://theingots.org/community/siel3u16
[197] https://theingots.org/community/sil2u82
[198] https://theingots.org/community/siel3u20
[199] https://theingots.org/community/sil2u83
[200] https://theingots.org/community/siel3u23
[201] https://theingots.org/community/sil2u84
[202] https://theingots.org/community/siel3u25
[203] https://theingots.org/community/sil2u85
[204] https://theingots.org/community/siel3u26
[205] https://theingots.org/community/siel3u28
[206] https://theingots.org/community/siel3u32

(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');