

UNIT 4: System Design and Installation  
Candidate 6954

Assessment criteria - Unit 4: System Design and Installation - part a)		
Mark Band 1	Mark Band 2	Mark Band 3
<p>The learner:</p> <ul style="list-style-type: none"> <li>carries out a <b>limited</b> investigation of the client's requirements</li> <li>products <b>limited</b> needs and analysis, but with <b>some omissions</b></li> <li>provides a <b>brief</b> description of at least two existing systems that meet similar needs</li> </ul>	<p>The learner:</p> <ul style="list-style-type: none"> <li>carries out an <b>adequate</b> investigation of the client's requirements</li> <li>produces a <b>sound</b> needs analysis</li> <li>provides a <b>detailed</b> description with <b>some evaluative comments</b> of at least two existing systems that meet similar needs</li> </ul>	<p>The learner:</p> <ul style="list-style-type: none"> <li>carries out a <b>thorough</b> investigation of the client's requirements</li> <li>produces a <b>comprehensive</b> needs analysis</li> <li>provides a <b>detailed</b> description and <b>considered evaluation</b> of at least two existing systems that meet similar needs.</li> </ul>
(0 – 6)	(7 – 9)	(10 – 12)
<p><b>Comments on Strand a</b></p> <p>The Candidate has researched the requirements of the Client thoroughly and undertaken a detailed investigation. The candidate has stated that Information has been gathered through a variety of different research methods but there is no real evidence, other than the narrative, to substantiate these claims. For full marks in mark band 1 there should be evidence of at least 2 different methods of investigation. 4.1 of the unit specification gives details of methods that can be used. The candidate says there was an interview with the client and observation. This is supported by the candidate explaining that the chair was tried. The candidate indicates discussions, with the Client, about the current processes and tasks which are performed by the client, and looks into the problems and limitations which they have in performing these tasks. The candidate has been extremely detailed in their identification of the needs of the Client. The candidate has reached a very clear and comprehensive conclusion about the client's requirements with justifiable alternatives included</p> <p>The candidate has produced a detailed description of 2 current systems which meet the user's needs, and has evaluated these giving his views about each one. The evidence submitted is sufficient for the meeting the requirements of Mark Band 2. There needs to be explicit evidence of the actual information gathering techniques to reach Mark Band 3.</p> <p><b>Mark Awarded 9</b></p>		
Assessment criteria - Unit 4: System Design and Installation - part b)		
Mark Band 1	Mark Band 2	Mark Band 3
<p>The learner produces an <b>outline</b> system specification that:</p> <ul style="list-style-type: none"> <li>meets <b>some</b> of the client's needs</li> <li>is <b>written</b> using simple, non-technical language</li> <li>gives <b>some</b> explanation for the choices made, but <b>without fully justifying them</b></li> <li>includes <b>little or no</b> consideration of ergonomics</li> </ul>	<p>The learner produces a <b>detailed</b> system specification that:</p> <ul style="list-style-type: none"> <li>meets <b>most</b> of the client's needs</li> <li>is <b>clearly presented</b>, using simple, non-technical language</li> <li>gives a <b>detailed</b> explanation for the choices made, with <b>some justification</b></li> <li>includes <b>some</b> consideration of ergonomics.</li> </ul>	<p>The learner produces a <b>comprehensive</b> system specification that:</p> <ul style="list-style-type: none"> <li>fully meets the client's needs in some most appropriate way</li> <li>is effectively presented, using simple, non-technical language, demonstrating full awareness of audience and purpose</li> <li>gives a <b>detailed</b> explanation and <b>full justification</b> for the choices made</li> </ul>

		• includes <b>full</b> consideration of ergonomics.
(0 – 9)	(10 – 13)	(14 – 18)
<p><b>Comments on Strand b</b></p> <p>The Candidate has given full thought to the requirements of the client and has produced a detailed systems specification which will satisfy the client's needs. Presentation of each of these elements is in simple non-technical language which is easily understandable to most audiences. The candidate has included explanations of the hardware to be installed in the system, including all internal components and but has not included peripherals (such as printer and scanner).</p> <p>The Candidate has stated the software choices without any justification being made and has given a consideration into some ergonomics of the office. This means the candidate has produced a detailed specification that meets <b>MOST</b> of the client's needs which puts the evidence in mark band 2. The lack of justification for the software choices means that not all marks in this mark band can be accessed.</p> <p><b>Mark Awarded 11</b></p>		
<b>Assessment criteria - Unit- part c)</b>		
<b>Mark Band 1</b>	<b>Mark Band 2</b>	<b>Mark Band 3</b>
<p>The learner:</p> <ul style="list-style-type: none"> <li>• produces a functional system that meets the specified requirements, with <b>extensive</b> prompting</li> <li>• carries out <b>some</b> configuration of <b>basic</b> system settings.</li> </ul> <p>Whilst working on the installation and configuration of the system the learner adheres to relevant standard ways of working, but needs <b>frequent</b> prompting.</p>	<p>The learner:</p> <ul style="list-style-type: none"> <li>• produces a functional system that meets the specified requirements, with <b>limited</b> prompting</li> <li>• carries out <b>sufficient</b> configuration of system settings to <b>customise</b> the system to meet the specified requirements.</li> </ul> <p>Whilst working on the installation and configuration of the system the learner adheres to relevant standard ways of working, needing only <b>occasional</b> prompting.</p>	<p>The learner:</p> <ul style="list-style-type: none"> <li>• produces a functional system that meets the specified requirements <b>independently</b></li> <li>• carries out <b>extensive</b> configuration of system settings to <b>optimise</b> the system to meet the specified needs <b>efficiently</b>.</li> </ul> <p>Whilst working on the installation and configuration of the system the learner adheres to relevant standard ways of working, <b>independently</b>.</p>
(0 – 8)	(9 – 12)	(13 – 15)

**Comments on Strand c**

The Candidate has included evidence of constructing a fully functional hardware system which has been designed for use either by a visually impaired or movement impaired user. The candidate has presented extremely well annotated evidence, in the form of screen shots and photographs, of his independent working. There is some evidence to indicate the installation of any required software, including the operating system and Office application software. There is evidence of this software running and being used in the testing section.

The candidate has configured the system, in that operating system features have been customised after installation, regional settings, visual and mouse setting.

A good range of practical activities have been undertaken in order to illustrate the candidate's interest and skills in the topics studied and demonstrates clearly working at the a high level with SWOW shown throughout.

To access all the marks in mark band 3, it would be expected more aspects of 4.8. and 4.9 would be evidenced. 4.8 gives much more scope for candidates to demonstrate they are working in mark band 3. The Assessment Guidance says "for full marks in this band (MB3), learners must have maximised the efficiency of the system ...."

**Mark Awarded 13**

**Assessment criteria - Unit 4: System Design and Installation - part d)**

Mark Band 1	Mark Band 2	Mark Band 3
The learner carries out some <b>limited</b> testing of <b>parts of the system</b> , but <b>not sufficient to guarantee that it functions correctly.</b>	The learner carries out <b>adequate</b> testing of the <b>whole system</b> to ensure that it <b>functions correctly.</b>	The learner carries out <b>extensive</b> testing of the <b>whole system</b> to ensure that it <b>functions correctly and is fully fit for purpose.</b>
(0 – 4)	(5 – 6)	(7)

**Comments on Strand d**

There is evidence of a series of tests carried out during the implementation of the hardware and software (see the System Installation section) and this includes checking the BIOS for added components. The candidate has included narratives, photographs and screen shots. The system appears to be a fully workable one which will deliver for the intended purpose There is a section called "Testing" which has a few tests which ensure that the configured system is fully functional. As stated back in the introduction to strand c, this is supported by a witness statement. There is no explicit evidence that others have been involved in the actual testing. however, it is clear from the evaluation, that the client's needs had been fully met. More thorough testing together with the involvement of others would have enabled the candidate to reach Mark Band 3. The evidence just fits the bottom of mark band 2.

**Mark Awarded 5**

Assessment criteria - Unit 4: System Design and Installation - part e)		
Mark Band 1	Mark Band 2	Mark Band 3
<p>The learner makes <b>some evaluative comments</b> about:</p> <ul style="list-style-type: none"> <li>the performance of the system</li> <li>their own performance.</li> </ul>	<p>The learner <b>evaluates</b>:</p> <ul style="list-style-type: none"> <li>the performance of the system</li> <li>their own performance,</li> <li><b>Incorporating feedback</b> from others and <b>makes recommendations for improvements.</b></li> </ul>	<p>The learner <b>fully evaluates</b>:</p> <ul style="list-style-type: none"> <li>the performance of the system</li> <li>their own performance</li> <li><b>Incorporating feedback</b> from others and <b>makes realistic recommendations for improvements.</b></li> </ul>
(0 – 4)	(5 – 6)	(7 – 8)
<p><b>Comments on Strand e</b></p> <p>The candidate has evaluated the performance of the system created with well presented arguments relating to all aspects of the unit. The candidate has ensured the original objectives of strand c were included in the evaluation and provided a comment with regards to each of these. Own performance has been evaluated indicating the process undertaken with a project which required the planning of many sub-tasks in order to create the fully working system to meet the needs of both visually and movement impaired users.</p> <p>The candidate has identified areas of development stating how they would enhance the system performance, and has included some modern technological developments in these comments. The lack of authenticated feedback from others means the candidate is unable to gain marks outside Mark Band 1.</p> <p><b>Mark Awarded 4</b></p>		
<b>Total marks</b>		<b>42/60</b>
<p><b>Overall Comment -</b></p> <p>An e-portfolio which demonstrates a good level of knowledge and skill, and shows that the candidate is working within the B grade band at AS level. Although SWOW has been evidenced, the candidate has not proof read the eportfolio content with the result that there are many uncorrected errors.</p>		