

Chapter 2 Assessment Requirements

2.1 SBA Requirements

The SBA component consists of one project assignment, which comprises 20% of the subject mark. A list of project titles and the arrangement of SBA will be announced to schools by the HKEAA in October 2010. The project assignment should be evaluated in accordance with the following seven categories:

- (1) Objective & Analysis
- (2) Design & Implementation
- (3) Practical ICT Skills
- (4) Testing & Evaluation
- (5) Conclusion & Discussion
- (6) Documentation
- (7) Creativity & Project Management

Students are required to complete at least the first part, (1) Objective & Analysis in S5 and teachers should submit the marks in May to June 2011. For the other six parts, (2) to (7), teachers should submit the marks in January to February 2012. Teachers are urged to plan the learning and teaching schedule for SBA thoroughly and to complete the assessments in time.

Requirements for Transfer Students

Transfer students are S6 students sitting the examination for the first time, but who have transferred from one school to another after S5. Transfer students will need to submit SBA marks for S6 only, which will be proportionally adjusted to 20% (full weighting of SBA of ICT) and incorporated into their subject mark. Their SBA results obtained in S5 in the former school will not be counted. In other words, the project assignment of transfer students will be evaluated in the following six categories:

- (2) Design & Implementation
- (3) Practical ICT Skills
- (4) Testing & Evaluation
- (5) Conclusion & Discussion
- (6) Documentation
- (7) Creativity & Project Management

Transfer students should provide information to their new school about the school in which they attended the S5 ICT course and the assessments completed there for their teachers' reference.

2.4 Assessment Criteria

Teachers should mark the project assignments (0 – 100 marks) using the following assessment criteria (tentative):

(1) Objectives and Analysis

Describing the project assignment, with details of the problem to be solved, the equipment and techniques used, and explaining why one particular method was chosen over another.

Performance	Description
<p style="text-align: center;">High (15 – 20 marks)</p>	<ul style="list-style-type: none"> • Produces a clear, accurate and reasonable description of the problem and the situation • Identifies and explains the requirements of the intended users • Constructs an appropriate structure of the sub-problems • Demonstrates thorough understanding of the key concepts involved in the problem • Clearly defines the scope of the project with appropriate study such as stakeholder/product analysis • Demonstrates a good understanding of the strengths and the weaknesses of different ways of solving the problem(s) • Produces clear comparisons of different IT tools • Justifies the choice of IT tools using appropriate terminology and provides sound reasons for the choice
<p style="text-align: center;">Middle (9 – 14 marks)</p>	<ul style="list-style-type: none"> • Produces a complete description of the problem and the situation • Clearly identifies the requirements of the intended users • Clearly identifies the sub-problems • Clearly defines the scope of the project • Identifies and describes an alternative way of solving the problem • Clearly describes and explains the choice of IT tools / way of solving the problem
<p style="text-align: center;">Low (1 – 8 marks)</p>	<ul style="list-style-type: none"> • Gives brief details of the problem and the situation • Identifies the requirements of the intended users • States the sub-problems • States the scope of the project • States an alternative way of solving the problem • States the choice of IT tools supported by reasons

(2) Design and Implementation

Describing the design of the solution for the selected problems. Demonstrating results and providing evidence of the implementation process.

Performance	Description
High (19 – 25 marks)	<ul style="list-style-type: none">• Produces a comprehensive, concise, precise and logical description of the design of the solution• Justifies the design based on supporting theories or concepts learnt in the subject• Highlights the special features of the design• Demonstrates effective and comprehensive data/information collection, capture and input• Demonstrates effective and comprehensive data/information verification and validation• Demonstrates effective, efficient and comprehensive data/information processing• Creates an appropriate output format of the deliverables that can easily be tested as a solution to the problem
Middle (11 – 18 marks)	<ul style="list-style-type: none">• Produces a clear and reasonable description of the design of the solution• Identifies the relationship between the essential parts of the solution• Demonstrates reasonable data/information collection, capture and input• Demonstrates reasonable data/information verification and validation• Demonstrates reasonably good quality of data/information processing• Creates an output format of the deliverables that can be tested as a solution to the problem
Low (1 – 10 marks)	<ul style="list-style-type: none">• Outlines the design of the solution• Attempts to establish a link between the different parts of the solution• Demonstrates an awareness of the necessary data/information collection, capture and input• Demonstrates an awareness of the necessary data/information verification and validation process• Carries out data/information processing relevant to the problem• Creates an output format of the deliverables that can be partially tested as a solution to the problem

(3) Practical ICT Skills

Demonstrating practical ICT skills in different phases.

Performance	Description
High (8 – 10 marks)	<ul style="list-style-type: none">• Demonstrates effective ICT skills in the appropriate use of resources• Demonstrates a good understanding of resources• Demonstrates appropriate ICT skills coherently
Middle (5 – 7 marks)	<ul style="list-style-type: none">• Demonstrates ICT skills in the use of resources with understanding• Demonstrates appropriate ICT skills adequately
Low (1 – 4 marks)	<ul style="list-style-type: none">• Uses resources with relevant ICT skills• Demonstrates appropriate ICT skills occasionally

(4) Testing and Evaluation

Testing and evaluating the deliverables.

Performance	Description
High (8 – 10 marks)	<ul style="list-style-type: none">• Records all test results according to the testing plan with quality metrics• Evaluates the effectiveness of the deliverables relative to the scope of the project and suggests corrective actions when necessary• Demonstrates a comprehensive methodology in testing and evaluation
Middle (5 – 7 marks)	<ul style="list-style-type: none">• Records most of test results according to the testing plan• Evaluates the effectiveness of the deliverables relative to the original scope
Low (1 – 4 marks)	<ul style="list-style-type: none">• Records test results• Produces descriptions of the evaluation

(5) Conclusion and Discussion

Drawing a conclusion related to the objectives and considering the limitations. Making suggestions for the deliverables.

Performance	Description
High (8 – 10 marks)	<ul style="list-style-type: none">• Draws a concise and accurate conclusion from the implementation process• Suggests and explains improvements made as a consequence of testing and evaluation• Demonstrates a clear and comprehensive understanding of the solution in further development• Reflects on learning process effectively
Middle (5 – 7 marks)	<ul style="list-style-type: none">• Draws a conclusion by referring to evidence collected• Suggests some practical improvements to the solution• Discusses the further development of the solution• Reflects on learning process
Low (1 – 4 marks)	<ul style="list-style-type: none">• Draws a conclusion with reasons• Suggests improvements to the solution• Demonstrates an awareness of further development

(6) Documentation

Producing a summary report of the project assignment. Including sources of assistance, materials and persons consulted.

Performance	Description
High (8 – 10 marks)	<ul style="list-style-type: none">• Produces a document using a good writing style and appropriate terminology• Demonstrates effective skills in the appropriate use of text and illustrations in giving detailed instructions in the document• Organises and presents objectives and original thought effectively• Acknowledges all sources of assistance
Middle (5 – 7 marks)	<ul style="list-style-type: none">• Produces a document with a comprehensible and sensible style• Generally demonstrates accuracy in spelling, punctuation and grammar• Uses text and illustrations effectively• Expresses ideas and vision successfully• Acknowledges most sources of assistance
Low (1 – 4 marks)	<ul style="list-style-type: none">• Produces a fair document with text and illustration• Produces text which is generally comprehensible• Acknowledges some sources of assistance

(7) Creativity and Project Management

Demonstrating the ability to manage the phases of the project assignment and produce original ideas, or making something new or imaginative.

Performance	Description
High (11 – 15 marks)	<ul style="list-style-type: none">• Demonstrates an imaginative use of ICT tools in the solution• Creates an innovative design for the solution• Produces templates and macros for users (if any) to improve work effectiveness and efficiency• Plans and follows a logical activity schedule in working out the project assignment• Identifies and accommodates any major internal and external environmental factors which are changed during the process
Middle (6 – 10 marks)	<ul style="list-style-type: none">• Provides some new ideas in analysing the problem and/or designing the solution• Demonstrates awareness of whether the solution is user-friendly• Plans and follows a schedule to work out the project assignment• Identifies and accommodates some internal and external environmental factors which are changed during the process
Low (1 – 5 marks)	<ul style="list-style-type: none">• Designs and implements a solution very similar to (or even the same as) an existing solution• Produces a plain design of the solution• Works out the project assignment with a schedule• Identifies a few internal and external environmental factors which are changed during the process and tries to accommodate them

The assessment criteria are tentative and subject to change after teachers' comments during September 2009 – August 2010.

At the end of the marking, teachers are required to complete an Assessment Record for SBA (*Appendix F*) for each student.

Note:

1. Students should be assessed in accordance with the above criteria. The SBA marks awarded by schools should reflect the rank order of its students as well as the relative difference between students' achievements.
2. Zero marks will be given if the work submitted by a student fails to meet the minimum requirement of the assessment standard.