

HKDSE Design and Applied Technology

SBA Conference

Ms Anna Lee
Manager – Assessment Development
HKEAA



香港考試及評核局
Hong Kong
Examinations and
Assessment Authority

11 June 2016

Agenda

Content	Duration	Speaker
Revisiting the SBA assessment criteria of DAT	30 minutes	Ms. Anna LEE
Feedback on 2016 DAT SBA candidates' performance	30 minutes	Mr. Tony YU
Sharing on 2016 DAT SBA projects	30 minutes	Ms. MAN Yin Kay
Interpretation on 2018 SBA project titles	60 minutes	Dr. Albert LO
SBA group meeting with district coordinators	35 minutes	Mr. CHENG Chun Kwong Mr. LAU Kwok Kuen Mr. LEE Kin Hung Mr. NG Ka Him
Q&A	45 minutes	All



Calendar of Events

Date	Events
Mid June 2016	Dissemination of SBA suggested project titles for 2018 HKDSE
13 July 2016	Release of 2016 HKDSE Examination Results
October 2016	Schools to Receive Feedback on 2016 DAT SBA
November 2016	Briefing Session on 2016 HKDSE DAT Examination



SBA Design Project

- Weighting 40% of subject mark
(**Part 1: 10%** ; **Part 2: 30%**)
- 25 - 35 hours
- Choose 1 from 3 suggested project titles
- Schools to submit all S5 and S6 SBA marks in one go in **January of the exam year**
- S6 repeaters/transfer students submit SBA marks for S6 only, which will be proportionally adjusted to 40%



Schools' Preparation before Visits

- SBA Supervisor and/or coordinators conduct school visits in March-May.
- **Be ready for DC's visit by March:**
 1. Both Parts 1 and 2 of the selected candidates' projects works and assessment score sheets
 2. Softcopy of selected candidates' project works **should be provided** to the supervisor/coordinator during their visit
 3. Projects should be identified by candidate number/HKID



SBA Assessment Criteria (Part 1)

評核準則	分數	
(a) 確認問題 - 探究問題及闡明所需工作 <ul style="list-style-type: none"> - 確認問題，並加以分析 - 列出設計綱要及一系列設計要求 - 研究、探討及資料收集 	10 10 15	3.5%
(b) 科技探究 - 探究真實的科技與設計個案 <ul style="list-style-type: none"> - 進行個案研習或科技探究 	35	3.5%
(c) 探索初步設計意念 <ul style="list-style-type: none"> - 產生及發展意念 - 草繪所建議的設計方案 	20 10	3%
第一部分總分：		100

Part 1
10 %
of Subject
Mark



SBA Assessment Criteria (Part 2)

評核準則	分數	
(a) 發展及精研各具創意的意念 <ul style="list-style-type: none"> 原創意念及各項可行的答案 設計的可行性及原創性 	20 10	9%
(b) 實踐創新的最後設計 <ul style="list-style-type: none"> 所製作的產品的功能及質量 適當及創意地應用科技 計劃、時間及資源的管理 	15 10 5	9%
(c) 測試及評估最後的設計 <ul style="list-style-type: none"> 就科技及設計方面去測試及評估最後的設計 評鑑所設計的方案對相關議題的影響，例如有關經濟、美學、社會、文化、環境、法律及道德議題 實踐滿足客戶／消費者的要求，例如產品設計、市場推廣策略、具備社會責任及展現企業 	10 10 10	9%
(d) 整體表現 <ul style="list-style-type: none"> 科技探究 設計過程 最後的設計製作 	10	3%
第二部分總分：		100

Part 2
30 %
of Subject
Mark



Reminders

- Marks of each assessment criteria in Part 2
 = marks of whole Part 1
- ★• Plan carefully the time on working out each part

Part 1

- Analysing the situation, and identifying the design problem and user needs
- Conducting a research into the design problem and analyse the relevant data collected, leading to a list of specifications
- Conducting a case study or a technological exploration related to/induced by the design problem
- Proposing appropriate 3 different initial design ideas, with consideration of specifications

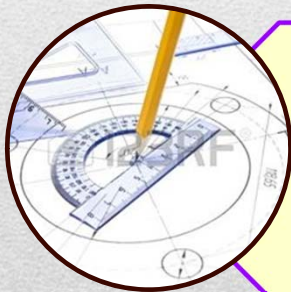


Part 2



Conducting a feasibility study on the proposed design solution resulting in reasoned decisions of design ideas; and making necessary modifications to the proposed design solution to ensure that it meets the requirements in the design brief

(a)



Presenting detailed information about the final design solution using engineering/ CAD drawings

(a)



Realising the proposed design solution using relevant skills and technologies.

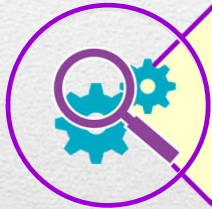
(b)

Part 2 (cont.)



Scheduling operations in the realisation of the whole project in a planned manner and with time and resources considerations

(b)



WHAT to test? HOW to test?

Devising and applying appropriate methods/tests to assess the success of the design

(c)



Evaluating the final design solution against the initial specifications

(c)



Suggesting possible modifications /further improvements

(c)

Observations



- Some students' work carried out in Part 1 was irrelevant to Part 2.
- ✓ Data collected should be related to the proposed design solution;
- ✓ Always keep track of meeting the user needs;
- ✓ The design specifications should be **specific**, should have **focus**, and **justified**;
- ✓ Identify the focus in the project and present in the Case Study
- Don't simply adopt information from the internet, without proper acknowledgement and own input
- Evaluation should be focused on the final design solution, NOT the model making process



Observations (cont.)

- Student just submitted some very rough sketches without providing further details or explanations. This makes the examiners difficult to understand the design ideas.
- ★• Should put effort in “Testing and evaluating the final design solution in terms of technology and design” in Part 2(c).
- Some teachers awarded marks to students using a norm-referenced approach instead of referring to the assessment criteria.
- Should plan the project time wisely for Part 1 and 2.



Observations (cont.)

- ★ Only making a model without accompanying with a report does not fulfil the criteria in Part 2

(Note: The requirements of a HKDSE SBA DAT project is pitched at a standard higher than that in the HKCEE)

- Some schools/students adopted their own SBA project titles. However, quite a number of those titles were found not meeting the full assessment criteria of the SBA. Schools are advised to use the year-specific titles provided by the HKEAA.



Support & Resources

- <http://www.hkeaa.edu.hk>
- [HOME](#) > [School-based Assessment](#) (Quick Links) > [Subject Information on SBA](#) > [Design and Applied Technology](#)



Support & Resources

- DAT Subject Information:

http://www.hkeaa.edu.hk/tc/hkdse/assessment/subject_information/category_a_subjects/hkdse_subj.html?A2&2&10

- 2016 Exam Report and Question Papers (to be published in November 2016)
- 2016 Samples of candidates' performance (HKEAA website) (to be published in early November 2016)



Enquiry

Hotline: [Examination Arrangements](#)

3628 8860 (and press 1, 7, 1)

[Operation of SBA in School](#)

3628 8070

Email: dse@hkeaa.edu.hk

