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HKDSE ICT 2012 & 2013

Exam Administration
2012 Public Examination

- Paper 1 – Compulsory Part (55%; 2 hrs)
  - 40 M.C. Qu. & 5 conventional Qu.
- Paper 2 – Elective Part (25%; 1.5 hrs)
  - 4 conventional Qu.
  - 2A – Database
  - 2B – Data Communication & Networking
  - 2C – Multi. Pro. & Web Site Development
  - 2D – Software Development
- SBA – Project Assignment (20%)
<table>
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<tr>
<th>2012 SBA (Assessment Criteria)</th>
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<tbody>
<tr>
<td>(1) Objective &amp; Analysis</td>
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<tr>
<td>(2) Design &amp; Implementation</td>
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<td>(3) Practical ICT Skills</td>
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<td>(4) Testing &amp; Evaluation</td>
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<td>(5) Conclusion &amp; Discussion</td>
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<td>(6) Documentation</td>
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<td>(7) Creativity &amp; Project</td>
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NEW in Assessment Criteria

- Three-tier performance bands
  - High, Middle, Low
- Practical ICT skills (10%)
  - Demonstrate practical ICT skills in different phases.
- Creativity & Project Management (15%)
  - Demonstrate the ability to manage the phases of the project assignment and produce original ideas, or to make something new or imaginative.
Use of Assessment Record

- The Assessment Record for SBA is a means to record *student performance*
- **Every student MUST have the standard Assessment Record**
- Giving students feedback
- Supplementary info to the assessment criteria only if necessary
A Circle of Support

School coordinator

School coordinator

School coordinator

School coordinator

SBA District coordinator

School coordinator

School coordinator
Moderation on SBA
Why Moderation – Standardization between Schools

- Teachers know their students well and are best placed to judge their relative performance.
- However, they may not be aware of the standards of performance across all schools.
- Some schools may be harsher or more lenient in marking and/or use a narrower or wider mark range.
- Standardization across schools to ensure fairness.
**Moderation Methods**

- Statistical moderation with an element of expert judgment

**Please note:**

- Moderation to be conducted on school basis (not class-based/teacher-based)
- Therefore, within-school standardization of teachers’ marking standard is necessary
- Queries about marking are dealt with by schools before mark submission
Statistical Moderation – Basic Principles

- In accordance with SBA School Leaders’ and Teachers’ Handbook:
  - Statistical moderation based on school exam results
  - Follow up with appropriate action for outliers identified
- Moderation based on exam results appropriate for most schools
- But adjustment based solely on exam results may not fully reflect students’ actual SBA performance in some schools
Features of Statistical Moderation

- Internal ranking would not be changed
- The statistical moderation method would consider the empirical correlation between exam results and SBA results
- Suppose teachers tend to give high marks to their own students; under the moderation method, such an effect would be eliminated when calculating the moderated marks
- Sample review to help identify outlier schools
- For outlier schools, adjustment will be carried out, if necessary, by considering a number of factors, such as moderated marks based on exam results and sample review findings so as to reflect the actual SBA performance
Reasons for Collecting Samples of Students’ Work

- Quality assurance for SBA
- Moderating SBA marks submitted by schools
- Securing international recognition of HKDSE
- Providing school-level feedback to schools
Sample Review

Purpose of sample review in the moderation process:

- Outlier detection
  - Identifying those schools where the standard of SBA work is significantly better/worse than their exam results suggested

**Stratified random sampling**

- Random sampling:
  - Each student work in a school has a chance to be selected, which is a necessary condition for obtaining a representative sample (i.e., unbiased estimations)
- Stratification:
  - Student works are divided into a number of strata, in each of which the performances of works are similar with each other (i.e., homogenous)
  - Some samples are selected from each stratum
  - Such an arrangement reduces sampling errors
Proposed Arrangements for Collecting Samples

- To be collected towards end of S6, after school submit the S6 SBA marks
- Six pieces of work representing students’ performance across the whole ability range to be randomly selected based on schools’ SBA marks, using stratified random sampling techniques
- Sample projects will be submitted online.
- If possible, request students to submit/retain their work in electronic format
The Way Forward

- SBA moderation booklet published by end of 2010, plus requirements on sample collection
- Provision of district coordinators (DCs) and other supports to schools
- Training provided to DCs to help standardize their standards in reviewing students’ work
Summary of moderation

- Statistical Method with expert judgment (similar to current CECIT/ASCA/ALCS)
- 6 Stratified random samples @ school (submitted in Jan/Feb 2012)
- Samples scrutinized for
  - Teaching / Learning /Assessment issues
  - Further investigation
2013 SBA Teachers’ Handbooks

- Requirements similar to 2012 Exam
- Subject to review in light of feedback from 2012 Exam
- Electronic version available in the HKEAA website in Dec 2010
2012 SBA Project Titles
Background

- School-based
- Tailor-made for students/teachers/schools
- Meet individuals’ needs, interest, aptitude
Implementation

- HKEAA provides SBA Project titles for 2012 and 2013 exam
- Teachers are free to amend or increase the number of project titles; or just provide the standard project titles for the first two exam years
Project Titles

- Part 1: Requirements & expectation
- Part 2: Scenarios/info of the titles
- **SCOPE** of the project assignment
  - Students should well define it
  - Mainly assessed in “Objective & Analysis” (in S5)
  - Influence the whole project
## Schedule of SBA Events (S5)

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>Oct 2010</td>
<td>Release of SBA titles (draft)</td>
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<tr>
<td>Nov 2010</td>
<td>Release of SBA titles</td>
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<tr>
<td>Dec 2010 – July 2011</td>
<td>Experience sharing on SBA in district</td>
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<tr>
<td>May 2011</td>
<td>Submit S5 SBA marks (Objective &amp; Analysis 20%)</td>
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<tr>
<td>July 2011 – Oct 2011</td>
<td>School visits when necessary</td>
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<tr>
<td>Date Range</td>
<td>Event Description</td>
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<tr>
<td>Oct 2011</td>
<td>SBA Teachers’ seminar</td>
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<tr>
<td>Jan/Feb 2012</td>
<td>Submit S6 SBA marks</td>
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<td>Submit SBA sample projects</td>
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<tr>
<td>Mar 2012 – July 2012</td>
<td>School visits when necessary</td>
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Teacher Support
Resources for NSS ICT (Completed)

- Professional development courses (EDB)
- Curriculum & Assessment Guide
- Standards-referenced Reporting Information Package (w/ sample papers) (Jun 09)
- SBA Teachers’ Handbook (Oct 09)
- SBA Training (June 2010)
Resources for NSS ICT (way forward 1)

- Professional development courses (EDB)
- Professional development courses (HKEAA)
  - Public Assessment-Management & Leadership Seminar (Today)
  - SBA Training (re-run) (Dec 2010; Jun/Jul 2011)
Resources for NSS ICT (way forward 2)

- SBA information package (HKU)
  - Completed by HKU in Q1 2011
- District coordinators for SBA (S5-S6)
- Practice papers (Jan 2012) *New!
- Sample Questions