HSRC RESEARCH OUTPUTE

6245

Marking, Coding and Data Grade 9 and 12 exams: Management

National READ meeting

12-13 January 2010, Lusaka, Zambia

Anil Kanjee

READ Technical Advisory Group

Centre for Education Quality Improvement – South Africa





Presentation outline

- Background and context
- Purpose of presentation
- Overview of findings
- Questions / Comments





Background and context

- To review Grade 9 and 12 marking processes
- To recommend areas in need of improvement

Process:

- Site visits at marking centers
- Observation of marking and data entry
- Review of marked papers, memos and exams papers
- Interview with markers, TL and Chief Examiners





Site visits

- Grade 9
- Kafue's Naboye High
- Kabulonga Girls and
- David Kuanda
- Grade 12
- LIBES
- Livingstone Teacher College
- Monza Agricultural College





GRADE 9



Grade 9 - Overview

- 86 centres spread over the country.
- Over a five day week directly after examinations
- Marking schemes/keys are checked and co-ordinated by marking panels at each centre before marking started
- Markers are expected to mark the same number of scripts
- Chief and Deputy markers QA scripts
- marksheets that are sent to ECZ to be scanned. On the last day markers enter and code the marks on the
- Checklists printed to check correctness of captured marks and to identify marksheets/marks not entered.
- in various centres since co-ordination is not standardized Moderation involves checking on how marking keys were revised
- Since 2004 statistical moderation has been done by ECZ.





Marking

- individual centres and not standardized across the country. were found. However, differences in marking may Of a high standard and minimum inconsistencies occur because marking keys are revised in
- candidates key to ensure the same standard of marking for all finalized and sent to the marking centres. All centres should then keep to this finalized marking Recommend - a sample of scripts are marked at a central venue after which the marking key is





Entering of candidates information

the learners registration forms on to an electronic database. information can be entered directly from information could be addressed by The problems encountered by the use of developing a system through which shading and scanning of candidates





Entry of marks

- time consuming process and not always reliable
- database. entered directly from the scripts on the Need a system through which information is
- e.g. data capturer at each marking centre
- can then be relocated to these centres. process of data processing. Entering of marks e.g. develop support centres in provinces/districts to assist with the whole





Insufficient time for marking:

- Very difficult to complete the marking of scripts in one week especially as the number of candidates increase every year.
- the time available for teachers to mark scripts. shade/code marks on marksheets will increase process in which teachers had to enter and The standardization of marking keys before marking process starts and the scrapping of the
- subjects varies and should be taken into account The time required to mark scripts in different





I raining of markers;

- Chief markers complain that markers are not trained and that they did not have sufficient experience
- during the year. demo scripts in training workshops/teacher training It is suggested that a progamme should be develop the skills necessary for marking by using developed to assist teaches/student teachers to
- the payment and conditions for marking. The problem of teachers losing trained markers to other institutions could be addressed by improving





GRADE 12



Grade 12

- Structure of marking centre:
- Each marking centre is managed by an ECZ
- co-ordinator. team leader panels of about five markers managed by a Each subject is supervised by a Chief Examiner. The examiners are divided in





Process of marking:

- Marking are done centrally per subject in 14 marking centres
- Scripts for each subject are distributed to marking team
- A two day process of coordination of marking precedes the marking process
- the scripts for moderation Team leaders randomly select at least 10% of
- A report on the performance each examiner is compiled by TL and chief examiners





Reports

- the different Grades recommendations (derived from the tallies on the Examiners Mark general performances of the candidates and make coverage of the paper. They should also form an opinion on the Distribution Sheet) with regard to the minimum marks required for comment on the (a) difficulty (b) validity (c) clarity and (d) syllabus assist the awarding committee to fix standards in the subject. They An Examiners Report on Standards compiled for ECZ by the Chief Examiner (in consultation of fellow markers) in each subject to
- strengthen the teaching and learning process combined in one booklet and sent to the schools with the purpose to weaknesses of candidates. The reports for all subjects are candidates in each question and highlights the strengths and teachers. The report analyses the difficulties experience by A report on learner performance in each subject is prepared for





Data entry

- Entering of results was done for the first time electronically at the marking centres.
- Entering is done by staff from ECZ.
- A printout is produced for each examination data is checked by the team leaders/markers centre after which the correctness of entered
- computer and then merged into one dataset at entered at one centre will be collected on one that marks entered are correct is good. All data The system of checks and balances to ensure





Marking

- appropriately. Marking in the centres visited is of a high standard and inconsistencies are dealt with
- The process of revising the marking keys before marking starts is excellent. and during the two days of coordination before
- levels of consistency in marking. examiners, also contribute to achieving high The report on the standard of examiner' marking, completed by team leaders and chief





Reports to schools

into the teaching and learning process. weaknesses of students are incorporated the knowledge on strengths and of education if it is interpret correctly and The extent to which the report on learner very powerful tool to improve the standard be investigated. This report could be a performance is used by teachers should





Retention of experience

- established and addressed. Contributing factors remuneration. The reason for dropout of experienced examiners should be
- inexperienced slower markers. return after two or three years put more strain on the more experience, that should be able to mark faster, do not other institutions that pay more. The fact that the examiners with soon as examiners gain experience they are snatched up by Examiners feel that the rate per script is not competitive and as
- consideration when the payment for markers is reviewed marking system after two or three years should be taken into The cost of constantly training new markers that are leaving the
- working away from their home base. be in line with the amount that they should be entitled to when for the days that they are at the marking centre and that this should Examiners feel that they should also receive an allowance per day





TL & Chief Examiners

part of the examination. compensated for evaluating the practical examiners in Computer Studies are not The remuneration of chief examiners and marking of other examiners. The marking scripts to increase there income can concentrate only on checking the They should be paid enough so that they team leaders are to low resulting in them





General

- compare practices used by other countries with their own procedures experience, e.g. one or two chief examiners visit other countries to There was a request that examiners should be exposed to international
- provided for the Mathematic papers. schemes. The limited time available for setting the papers and for schemes that do not have enough detail. Graph paper should be proofreading resulted in a lot of errors and errata as well marking More time should be provided for setting of papers and marking
- warm water in some centres were mentioned. that up to four examiners had to share a room and the lack of soap and The accommodation conditions are not always satisfactory. The fact
- that the chief examiner can follow up on practical answers A computer should be provided for the marking of computer studies so





Data entry

- examination papers on to an electronic database where marks are entered directly from the learners information are entered electronically at school level and introducing a system through which candidates the use of shading and scanning of candidates? information and marks are already addressed by ECZ by The problems encountered in the evaluation of the examination procedure for the Grade 9 examination with
- be improved. scrutinized to identify ways in which the process could Although this is a big step forward the process should be





Addressing data entry challenges

- More computers and manpower to prevent the backlogs at the point of data entry.
- Data capturers experience and speed should be considered in selection
- separately to facilitate retrieving of scripts Data entry room should be big enough to organise scripts for each team leader
- The ECZ co-ordinator at a centre should not be used as a data capturer
- Problems with data entry search function did not always work properly which makes it difficult to identify examiners at all times
- Current system did not allow data capturers to track progress of entry
- serve as a way to track the progress in the different centres on a daily basis. A back-up system should be put in place. For the moment backing up on memory regular basis (e.g. twice a day) to the ECZ office should be put in place. This can also sticks should be sufficient. For the long term a system in which data are sent on a
- feasible programme is used in future investigated and compared with other data entry programmes to ensure that the most The software programme that is currently used for data entering should be
- The virus problem should be resolved.













_IBES centre - Tuesday 5 Jan 2010







Monza centre - Saturday 9 Jan 2010

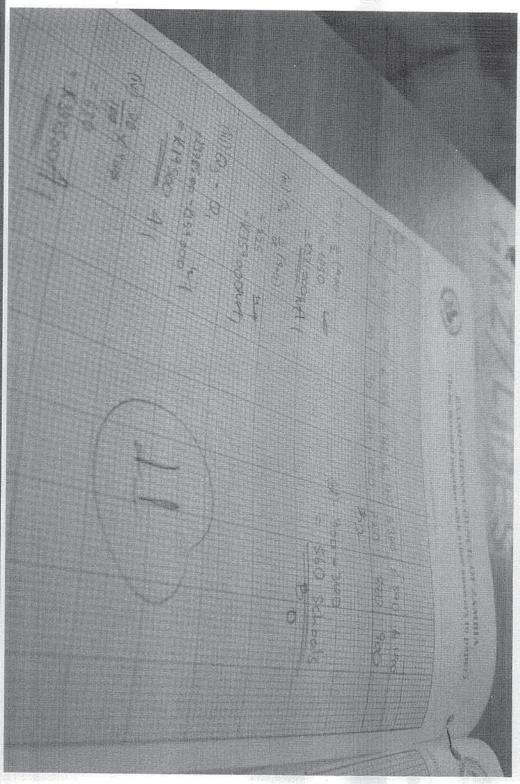




Maths P2 -6 Jan 2010



Maths question



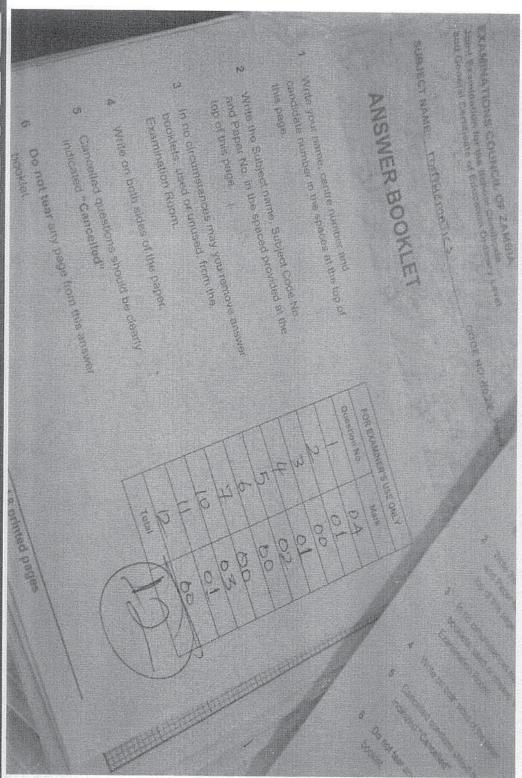


Marked script

o not tear any cage from this answer ndiceled "Cancelled" uancelled questions should be cleanly VELTED BUT ITS STORE WITH LINE 246-1-80-03



Marked script







READ

Livingstone College 6 Jan 2010





Questions? Comments?

Anil Kanjee akanjee@hsrc.ac.za anil.kanjee@gmail.com



