Workshop 1 Analysis of Grade 12 Mathematics Paper 1 By VG Govender and R Govender

Title: **Analysing Grade 12 Mathematics Examination Paper 1**

Presenters: VG Govender (UFH); R Govender (UWC)

Target audience: AMESA representatives (4 per region)

Duration: 2 hours
Maximum number of participants: 36

Motivation for workshop: At the end of each year, AMESA makes a detailed submission on grade 12 Mathematics examination papers, based on input from the regions. This workshop is designed to assist regions make a more constructive contribution to this process, according to clear defined categories

Description of the content of the workshop:

The March 2011 examination paper 1 will be used as a guide. The workshop presenters will, on an interactive basis, discuss the following key points

A. General

In this part, the following key aspects will be done. Participants will be asked to comment on:

1. Technical aspects
2. Language
3. Syllabus coverage in terms of the content allocation for the paper as described in the Subject Assessment Guidelines
4. Standard of the paper
5. Compliance with suggested cognitive levels (as suggested in the Subject Assessment Guidelines)
6. Overall verdict

B. Question by question analysis

Each sub-question will be analysed for the content covered , level of the question and allocation of marks. Comments may also be included.

The example below shows how a question on Sequences and series from the November 2012 paper 1 was analysed. Analysis of questions will be done according to this format.

Question 2						**[13]**		
Quest.	**Content**	**Levels**				**Marks**	**Topic Code**	**Comment**
	Sequences	**1**	**2**	**3**	**4**			
2.1.1	AP knowing common difference	✓				2	1	Straightforward; fair question
2.1.2	GP knowing ratio		✓			3		What answers will be accepted? Rounding off would not be appropriate.
2.2	Sum of GP sigma notation			✓		4		Straightforward; fair question
2.3	Proof for Sn of AP	✓				4		Fair question with a possibility of being undermined in class; learners may lose marks
	TOTAL	**6**	**3**	**4**		**13**		

The activities and worksheets to be used in the workshop

The 2011 March Examination paper 1 will be used in this workshop. Participants will go over the paper to get a general impression. They will then go over each question and complete the question grid. The workshop presenters will take feedback from participants at key stages and seek consensus on their comment and analysis.