

AGRICULTURAL MANAGEMENT PRACTICES

EXAMINATION GUIDELINES

GRADE 12

2017

These guidelines consist of 13 pages.

Examination Guidelines

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1. INTRODUCTION

The Curriculum and Assessment Policy Statement (CAPS) for Agricultural Management Practices outlines the nature and purpose of the subject Agricultural Management Practices. This guides the philosophy underlying the teaching and assessment of the subject in Grade 12.

The purpose of these Examination Guidelines is to:

- Provide clarity on the depth and scope of the content to be assessed in the Grade 12 National Senior Certificate Examination in Agricultural Management Practices.
- Assist teachers to adequately prepare learners for the examinations.

This document deals with the final Grade 12 external examinations. It does not deal in any depth with the School-Based Assessment (SBA), Practical Assessment Tasks (PATs) or final external practical examinations, as these are clarified in a separate PAT document which is updated annually.

These Examination Guidelines should be read in conjunction with:

- The National Curriculum Statement (NCS) Curriculum and Assessment Policy Statement (CAPS): Agricultural Management Practices
- The National Protocol of Assessment: An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding the National Protocol for Assessment (Grades R–12)
- The national policy pertaining to the programme and promotion requirements of the National Curriculum Statement, Grades R–12

2. ASSESSMENT IN GRADE 12

2.1 SCHEME OF EXTERNAL ASSESSMENT

All candidates will write one external paper in grade 12 as prescribed

2.1.1 Format of question paper

Paper	Type of paper	Duration	Total	End of Year	Assessed
1	SECTION A: Terminology, multiple-choice questions – 50 marks SECTION B: Structured questions – 150 marks	3 hours	200	October/ November	Externally

Questions in question paper will assess performance at different cognitive levels with an emphasis on process skills, critical thinking, scientific reasoning and strategies to investigate and solve problems in a variety of scientific, technological, environmental and everyday contexts as outlined earlier.

2.1.2 Assignments in Agricultural Management Practices – Grade 12

The 'Practical Task', as mentioned in the CAPS, creates confusion and is therefore replaced by the term 'assignment'. An assignment is a problem-solving exercise with clear guidelines and a specified length. It is shorter focused, more structured and less open-ended than a project and does not necessarily involve strict adherence to prescribed procedures. An assignment can be a practical task but the practical task does not replace the practical tasks needed for the PAT.

Assignments provide learners with opportunities to develop and practise specific knowledge, skills, values and attitudes.

Possible evidence:

- Case study/Simulations/Scenarios
- Demonstration
- Analysis and interpretations of data (Worksheet)
- Translation activity (worksheet)

Assignments should be designed from the content as set out in each grade:				
Grade 10	Grade 11	Grade 12		
Crop production and crop	Crop production and	Farm planning		
management	management	Recording		
 Soil and water 	Soil and water management	 Product harvesting 		
management	 Animal production and 	Marketing		
 Animal production and 	animal management	Value adding		
animal production	Fertiliser management and	Processing		
management	application	 Packing and distribution 		

2.2 COGNITIVE LEVEL WEIGHTING

The following is a guide for the cognitive level weighting applicable to the question paper. The key verb is used as a guide to judge the appropriate cognitive level of a question. The context of the question will provide more details to measure the level of difficulty of a question to place it at the most appropriate level. The marks per cognitive level need to reflect the overall cognitive balance as a percentage (30% knowledge, 60% comprehension and application and 10% analysis, synthesis and evaluation) for each of the question paper. The cognitive levels will be scaffolded within a question.

Cognitive levels, context words and key verbs for examination and test papers

2.2.1 The level of difficulty

Each of the cognitive levels A (basic knowledge), B (comprehension and application) and C (analysis, synthesis and evaluation) is mainly determined by the key verbs used in the questions. The level of difficulty for each of these categories must also be judged based on the context of each question. The level of difficulty will fall into three different categories for each of the cognitive levels as difficult, moderate and easy. The weighting of these categories should be equal for each of the cognitive levels.

The following contextual issues need to be considered when assessing a question for its level of difficulty:

- The detail of the knowledge or concepts required in the responses
- The amount/quantity of knowledge or concepts that is needed in the responses
- The complexity of the knowledge or concepts that is required in the responses
- The type and complexity of skills needed to complete the question
- The complexity of the phrasing of a question
- The level of extended thinking needed to respond to a question
- The basic context of a question

Each of the contextual issues above needs to be carefully evaluated in each question to make a judgement on the level of difficulty of a question. This classification of questions needs to be justified by the expected performances and perception of candidates to them. Refer to the exemplar question paper for some examples in this regard.

2.2.2 Handling, applying and evaluating information

Candidates should be able (in words or by using written, symbolic, graphical and numerical forms of presentation) to:

- Solve problems
- Locate, select, organise and present information from a variety of sources
- Translate information from one form to another
- Manipulate numerical and other data
- Use information to identify patterns, report trends, draw inferences and report conclusions
- Present reasoned explanations for phenomena, patterns and relationships
- Apply knowledge, including principles, to novel situations
- Evaluate information and hypotheses

2.2.3 Practical skills and investigations

Candidates should be able to:

- Follow a detailed set of sequence of instructions and use techniques, apparatus and materials safely and effectively
- Make observations and measurements with due regard for precision and accuracy
- Interpret experimental data and make observations
- Identify a problem, design and plan investigations, design or select methods and techniques, suggest possible improvement (for this purpose, planning and designing will include ability to identify variables, state hypothesis, select, set up and use the appropriate apparatus)
- For example, in an examination the apparatus may be set up and learners may be required to label or even criticise the set-up, where this refers to a formal prescribed experiment
- Record observations, measurements, methods and techniques with due regard for precision, accuracy and units

2.2.4 Weighting of cognitive levels

The distribution of cognitive levels in Agricultural Management Practices papers is given below.

COGNITIVE LEVEL WEIGHTING %	CONTEXT WORDS	KEY VERBS
A	Knowledge	Give labels, list, name, state or identify
30%		functions, recognise;
		Concepts, processes, mechanisms, etc.
В	Comprehension	Describe or explain concepts, classify,
30%		processes, mechanisms;
		Make direct deductions from data given;
		Do calculations, etc.
C 30%	Application	Interpret data; explain adaptations or environmental factors influencing effectiveness; draw flow charts or mind maps to illustrate processes or mechanisms; construct tables and graphs to organise and present data; draw diagrams to investigate concepts; communicate findings and apply formulas
D	Analysis,	Problem-solving; formulate a hypothesis; design
10%	Synthesis and	experiments/investigations; analyse; predict;
	Evaluation	argue and evaluate

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2.2.5 Weighting of prescribed content

	Content	Marks	Total	Duration
Section A	Equal distribution from content	50	50 marks	
В	Physical and financial planning	50		3 hours
Section E	Entrepreneurship, recording, marketing, business planning and organised agriculture	50	150 marks	
Š	Harvesting, processing, management and agritourism			

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3. ELABORATION OF SUBJECT CONTENT

Subject content as listed in the CAPS was regrouped and altered with some additions to make content clear and will be assessed in the topics below. New additions, as mentioned under suggested content, will be assessed in 2015.

TOPIC	CONTENT	SUGGESTED CONTENT SEQUENCE
Farm planning (physical and economical)	Resources available for enterprise planning Farming systems available and be able to determine the best one for production based on available resources	Land: Soil; the production ability of soil and influences on soil; soil data (collection, interpretation for utilisation and application), Depth: crop specific; discuss the role of soil depth on crop production, drainage and moisture conservation, Texture: characteristics of different texture types, PH: correction of pH; degradation of soil Topography and slope: reasons for contours methods used and advantages, disadvantages Climate: influence of light, wind, temperature (influence on plant growth) and rain Vegetation/Pastures(natural and cultivated): Different types — planted pastures; carrying capacity Reasons for camps and management Principles of laying out camps; degradation of veld Advantages: discuss the advantages of camps Capital as a resource; sources of capital Labour as a resource and influence on productivity Choice of production farming system — reasons, differences and examples: Extensive (crop and animal production system) Semi-intensive (crop and animal production system) Intensive (crop and animal production system) Precision farming as an intensive production system (crop and animal example): Definition, practical application, resources available, agronomic, technical and economic applications, advantages and disadvantages. Precision farming cycle in planning Types of equipment used, advantages and disadvantages of equipment Mechanisation and implement planning: Decision-making steps to acquire implements Advantages and disadvantages of equipment and implements used in enterprises Occupational Health and Safety Act: Rules and regulations for safe use, general safety principles
	Economic planning process	 Pesticides and herbicides: correct use of, pollution prevention Capital: sources of capital, different types of capital and definition Budgets: basic elements of budget, steps to draw up a budget Definition, aim, types and examples of budgets Distinguish between whole-farm and enterprise budgets

Farm planning	Labour planning	Types of labour
(physical and	and how production	Labour legislation: influence of labour legislation on labour, labour contracts
economical)	is influenced by the	Functions of labour in a specific enterprise: drawing up a job description
	above	Staff management: steps in the management process
		Labour problems
		 Improvement of production: methods of improvement, influence of diseases on production and farm management
Farm planning	Farm planning	Cash flow:
economical,	(economical)	Definition
entrepreneurship,		Drawing up a cash flow budget: use a basic example
recording,		Income and expenses statement:
marketing and		Definition
business		Drawing up statements:
planning		Use a basic example
		 Profit or loss calculations of a specific enterprise
	Aims, advantages	• Aim
	and types of	Advantages
	records	Types of records: reasons to keep certain records:
		 Climatologically (how it influences decision-making)
		 Financial (profit or loss)
		 Labour (contracts, working hours, leave)
		Physical inventory
		Mechanical maintenance and logbook
		Marketing prices and movement in the market
	Mathemate	Complete records The released size of the following resetted as:
	Methods of	The role and aim of the following methods:
	recording and the	Diary, database (computer)
	importance	Factors that influence type of record system Provided feature that influence the system
		Practical factors that influence the system Proceeds and a graduation and horizontal accords.
		Records such as production and harvesting records
	Farm planning	Invoice: examples of basic knowledge
	(economical)	Cheques: examples of basic knowledge
	Recording data and	Depreciation: basic concept and calculations
	use	Deposit books: concept and application
		Petty cash: concept and application
		Trial balance:
		Definition
		Drawing up a Trial Balance: use a basic practical example as used in management

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Farm planning	Entrepreneurship skills	Definition:
economical,		Qualities of an entrepreneur
entrepreneurship,		Managing skills
recording,		Business creation in agriculture (business opportunities):
marketing and		Different types of business with reference to:
business		Manufacturing
planning		o Primary, e.g. agriculture
		o Secondary, e.g. manufacturing
		o Tertiary, e.g. services
		Business survival strategies with reference to:
		Diversification, specialisation
		Producing a unique product
		Value-adding marketing, e.g. milk to cheese
	_	The occupation of niche markets
	Development of a	Description and explanation of a business plan:
	basic business plan	A simple business plan with reference to the following aspects:
		General overview of the business
		Planning, including SWOT analysis
		Vision and mission Financial details
		 ○ Financial details ○ Marketing plan
	Marketing and control	Marketing plan Marketing systems: free marketing/cooperative marketing/marketing agents:
	of agricultural products	Marketing Systems. Hee marketing/cooperative marketing/marketing agents. Marketing Acts: Marketing of Agricultural Products Act
	or agricultural products	Importance of marketing: discuss the selling of products
		Marketing functions: planning/transport/processing/standardisation, grading and storing
		Advertising: aim of advertising in marketing; advertising methods
	Price setting in	Methods of setting prices:
	agricultural produce	The marketing chain and its costs (include calculations) – farmer to consumer; value adding
	agricanara produce	Market research – reasons for market research: where, why, what and how?
		Customer and competitor information (examples to illustrate the equilibrium position in the market); direct and
		indirect competition
		The effect of supply and demand on price – demand and supply curve
		Break-even point involving cost and profit
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Organised	Role of producer/	Type of organisation:
agriculture	product organisations in	Local, national, multinational
	agriculture	Advantages and disadvantages of organisation
		The role of the producer/product organisation in the marketing of products:
		Marketing, advertising
		Quality control and standardisation
Harvesting,	Product harvesting and	Regulations and legal aspects (Acts):
processing and	quality control of	Regarding products: grading, requirements for the delivery of certain products
management	agricultural produce	Handling products: basic principles; collection and transport
		Storing products: methods of storing; advantages of storing
		Sorting and grading products
	Value adding and	Labelling and value-adding Acts: interpretation and application of the Act:
	labelling of agricultural	Registration Acts: interpretation and application of the Act
	produce	Value-adding methods
		Types of products
		Advantages: higher income, job creation and longer shelf life
	Processing of	Principles of processing/preservation techniques:
	agricultural products	o Heating
		Destruction of micro-organisms
		o Freezing
		Advantages/Reasons: longer shelf life, food security and better quality products
		Factors indicating the viability of value adding: equipment, facilities and demand
	Packing and distribution	Regulations and Acts: Labelling and Marketing Act:
	of agricultural	Types of packing methods and materials: packing facilities, packaging store, wrapping
	products/produce	Distribution channels
		Transport requirements: rules and regulations regarding transporting animals
	Agritourism	Definition and description:
		Types:
		Product routes
		o Guest farms
		Advantages and disadvantages
		Requirements:
		o Infrastructure
		o_Marketing
		The farmer's role in agritourism – entrepreneur

Harvesting, processing and	Management aspects	
management	Planning:	Steps in the decision-making process
		Reasons for planning
	Organising:	Organising an enterprise
		Use of labour and other resources
		Plan own enterprise/farm organogram
		Advantages of good planning – profit and productivity
	Motivation/Leadership:	Human resources (training)
		Motivation (incentives)
		Delegating (creating responsibility)
		Communication (address issues)
	Control:	Development of standards – steps in the development of standards
		Corrective measures – changes to standards and methods
		Advantages of good control – economically and productivity
	Coordination and	Coordination between steps in the process
	evaluation:	Advantages of coordination
		Coordination of labour, tasks and machinery
	Farm valuation	Inter-reliance of different enterprises:
	importance	Profitability of enterprises – basic profit and loss calculations
		Viability of enterprises – basic calculations
		Suitability of the farm in terms of the business plan – choices regarding the enterprise

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4. CONCLUSION

This Examination Guideline document is meant to articulate the assessment aspirations espoused in the CAPS document. It is therefore not a substitute for the CAPS document which teachers should teach to.

Qualitative curriculum coverage as enunciated in the CAPS cannot be over-emphasised.