

AGRICULTURAL MANAGEMENT PRACTICES

GUIDELINES FOR PRACTICAL ASSESSMENT TASKS (PATs)

GRADES 10–12

2023

These guidelines consist of 39 pages.

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1. INTRODUCTION

The 16 Curriculum and Assessment Policy Statement subjects which contain a practical component all include a practical assessment task (PAT). These subjects are:

AGRICULTURE: Agricultural Management Practices, Agricultural

Technology

ARTS: Dance Studies, Design, Dramatic Arts, Music, Visual

Arts

SCIENCES: Computer Applications Technology, Information

Technology

SERVICES: Consumer Studies, Hospitality Studies, Tourism
 TECHNOLOGY: Civil Technology, Electrical Technology, Mechanical

Technology and Engineering Graphics and Design

A practical assessment task (PAT) mark is a compulsory component of the final promotion mark for all candidates offering subjects that have a practical component and counts 25% (100 marks) of the end-of-year examination mark. The PAT is implemented across the first three terms of the school year. This is broken down into different phases or a series of smaller activities that make up the PAT. The PAT allows for learners to be assessed on a regular basis during the school year and it also allows for the assessment of skills that cannot be assessed in a written format, e.g. test or examination. It is therefore important for schools to ensure that all learners complete the practical assessment tasks within the stipulated period to ensure that learners are resulted at the end of the school year. The planning and execution of the PAT differs from subject to subject.

2. TEACHER GUIDELINES

2.1 How to administer the practical assessment task (PAT)

The PAT contributes 25% of the total promotion mark (400) in Grades 10–12. The practical assessment task contributes 100 marks and consists of a management overview (20 marks), practical activities (50 marks), management test (20 marks) and diary/time register (10 marks).

The design portfolio and final project must be available for monitoring and moderation, and be evaluated, checked and authenticated by the teacher before being presented as the learner's final evidence of performance.

The teacher file for the practical assessment task must contain evidence of:

- (a) The PAT task and all its components
- (b) A complete record of all assessment and must always be available for monitoring and moderation purposes

Failure by the teacher to maintain a file of assessment tasks constitutes an act of misconduct and will be dealt with in terms of paragraph 5(3) of the policy document, National policy on the conduct, and management of the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), or other appropriate measures.

2.1.1 The aim of the practical assessment task (PAT) for Agricultural Management Practices (AMP) is to assess management, entrepreneurial, research, marketing, operational and technical skills of learners in the production enterprises which they are exposed to.

- 2.1.2 In Grades 10-12 a total of at least THREE production enterprises must be utilised that would consist of at least ONE animal production enterprise or at least ONE plant production enterprise.
- 2.1.3 The context in which the subject is offered is subject to a wide range of different production systems, production enterprises, management approaches and ecological differences between the different regions in the country. The PAT must allow for this wide range of possible approaches and applications.
- 2.1.4 These PAT guidelines will provide criteria to assist with the standardisation of the variety of possible enterprises that exists in Agricultural Management Practices (AMP).
- 2.1.5 The PAT should show progression in complexity, content and context from Grade 10 to Grade 12.
- The PAT activities should link with the content of the relevant grades and 2.1.6 practices as applied in the primary and secondary agricultural industry.
- 2.1.7 The PATs for Grades 10 and 11 are internally set, marked/assessed and moderated whereas the PAT for Grade 12 is internally set and marked/assessed and externally moderated.
- 2.1.8 The components of the PAT are completed under controlled conditions and evidence of each activity or task should be in the learner's portfolio.
- The PAT must include evidence of how the production-related processes 2.1.9 in the different enterprises are managed over a period of a year.
- 2.1.10 Learners should know the assessment criteria before they start with each activity.
- 2.1.11 The use of external assessors (e.g. wool-classing, artificial insemination (AI) and sheep shearing courses) for the practical section of the PAT will support the assessment done by the teacher.

2.2 Components of the PATs

The PATs in Grades 10–12 consist of the following components:

- The management overview is based on the development of annual production plans for the management of the relevant enterprises
- Practical tasks (activities) which are comprehensively assessed
- The management test which consists of application questions, such as case studies and scenarios based on activities in the above management plans and practical for production enterprises
- Diary or logbook (time register) of time spent in enterprises/and tasks performed during time that the learner spent in a practical situation or production enterprise

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2.2.1 Management overview

This activity requires the learner to create/complete a production plan of the chosen production enterprise which includes the most important practices and management aspects within that production enterprise. It should be presented in calendar form or as a monthly report. This provides an overall impression of production processes as they are implemented over a period of a year or production cycle within the specific production system.

It must include proven farming practices which are locally practised and those which the learners would be exposed to. The activity could be in pairs or individual and would include research that should include the grade content expectation as indicated in the rubrics in ANNEXURE A. The management overview should preferably be within the learners' field of interest.

Grade 10

The basic production activities that would be included in an annual production plan for a plant production enterprise or an animal production enterprise must be listed. These activities could be described and an indication of a possible timeframe for each activity should be included.

TABLE 1: Examples of some practices that form part of a production enterprise in Grade 10.

CROP PRODUCTION	ANIMAL PRODUCTION
Planning for the planting	Feed-mixing/rations provided
season	 Reproduction/Mating season
 Order production inputs 	Order production inputs
Basic soil preparation/	 Animal husbandry: castration/
Mechanisation	dehorning/immunisation/dosing/
 Planting (direct seeding/ 	dipping, etc.
transplanting)	 Production of milk/meat/fibre/eggs, etc.
Crop care/Integrated	 Basic management of animals (animal
pest/weed and disease	health management)
management	 Record-keeping (Animal identification:
 Crop fertilisation programme 	tagging, ear marking, tattooing,
 Crop irrigation programme 	branding – hot iron and freeze etc.)

Grade 11

A comprehensive production plan for the relevant plant or animal production enterprise for a period of 12 months must be presented. This production plan should clearly indicate the enterprise-specific management activities which are implemented to get the optimum production outputs for that enterprise.

TABLE 2: Example of some practices done in Grade 11

SPECIFIC CROP PRODUCTION ENTERPRISE	SPECIFIC ANIMAL PRODUCTION ENTERPRISE
 Planning for the planting season Order production inputs Basic soil preparation/mechanisation Planting of crop Integrated pest and disease and weed management Crop fertilisation programme Crop irrigation programme 	 Feed (fodder) flow programme Application of various grazing systems Mating season planning (reproduction/pregnancy testing) Manipulation of reproduction/AI Order production inputs Health care (immunisation/dosage/dipping/medication) Management and handling of animals (Animal health management Production of milk/meat/fibre/eggs Management and handling of animals Record-keeping (Animal identification: tagging, ear marking, tattooing, branding – hot iron and freeze, etc.)

Grade 12

An extensive production plan for a plant or animal production enterprise that will include the following content issues covered in Grade 12:

- Physical and natural resource management
- Holistic planning/Whole enterprise production planning/Strategic enterprise production planning (from beginning to end)
- Financial aspects/Implementation and control of enterprise budget
- Labour management
- Record-keeping (physical and financial records)
- Harvesting/Post-harvesting (handling. procedures packaging, transportation, storage)
- Grading/Product differentiation/Sorting
- Product processing/Value-adding
- Product marketing/Distribution
- Agritourism/Niche markets opportunities

General remarks about the management overview

The issues mentioned above must be presented for a complete production cycle and should include all appropriate practices for the relevant enterprise, e.g. in beef cattle production for Grade 10, the management overview will include a general overview of management aspects required. For Grade 11 it will include all the processes needed to produce a weaner and for Grade 12 the finishing of the weaner in the feedlot, slaughtering and marketing of beef and financial aspects will be included. The scenario could be compiled to show a timeline for the production processes that in the production cycle.

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Challenges and successes must be listed, e.g. Code of Good Agricultural Practices (GAP) as prescribed by each relevant industry.

The assessment tool used for this activity could be a checklist, rubric or memorandum.

Practical tasks (activities) 2.2.2

This section of the PAT for AMP must be completed under controlled conditions in an operational or practical situation. If the school does not have the proper facilities, appropriate production enterprise facilities nearby should be identified and used to complete the activities planned for at the beginning of the year. This part of the PAT focuses on the assessment of an individual learner while performing practical activities in both animal and plant production enterprises.

At least TWO practical activities/tasks in the relevant production enterprises per term should be performed and comprehensively assessed for Grade 10 and 11 learners (Terms 1-3) and Grade 12 (Terms 1-2). This part of the PAT assesses the performance of learners while they are involved in the activities/practical. Tasks should be set in real-life settings, for example milking cows, artificial insemination, inoculation, crop-care practices (spraying of crops, grafting, budding, monitoring of diseases and pests (scouting), planting, transplanting of seedlings, germination percentage, fertiliser application, mechanisation planning), care of animals (dehorning, castration, feeding, branding, marking, disease control, rearing of calves, etc.) and value-adding activities (tomato paste, yoghurt making etc.), harvesting, classing, etc. These activities should be spread over the entire range of the enterprises and should not only focus on one aspect or enterprise.

The practical activities are assessed, and on-site moderation should be completed where possible. Evidence to support the assessment of the activities should be gathered for the final moderation. This should include photographs, pictures and/or video clips of these activities and assessment tasks of the activities.

Practical activities are related to the **psychomotor domain** which focuses on the physical and kinaesthetic skills that learners need to develop and demonstrate. These skills should be gradually developed by following the various levels as set out below. The development of the skills should be in the relevant production enterprises offered at the school.

The affective domain which includes aspects such as feelings, values, appreciation, enthusiasm, motivation, and attitude are also covered in this part of the PAT.

The psychomotor domain for practical activity development is characterised by progressive levels of behaviour from observation to mastery of required skills. Assessment can only be done once learners have been given the opportunity to practice the required skills.

LEVEL	DEFINITION	LEVEL DESCRIPTION
1. Observing	Active mental attending of a physical event.	The learner observes a more experienced person in his/her performance of the skill. Asked to observe sequences and relationships and to pay particular attention to the finished product. Direct observation may be supplemented by reading or watching a video. Thus, the learner may read about the topic and then watch a performance.
2. Imitating	Attempted copying of a physical behaviour.	The learner begins to acquire the rudiments of the skill. The learner follows directions and sequences under close supervision. The total act is not important, nor is timing or coordination emphasised. The learner is conscious of deliberate effort to imitate the model.
3. Practising	Trying a specific physical activity repeatedly.	The entire sequence is performed repeatedly. All aspects of the act are performed in sequence. Conscious effort fades as the performance becomes habitual. Timing and coordination are emphasised. Here the person has acquired the skill but is not an expert.
4. Adapting	Fine tuning. Making minor adjustments in the physical activity to perfect it.	Perfection of the skill. Minor adjustments are made that influence the total performance. Coaching is often valuable here.

Key Verbs

Below are some examples of key verbs associated with the cognitive domain. Using such verbs is beneficial for writing effective learning objectives when worksheets for the practicals are developed.

- Collect, inject, calculate, mix, classify
- Handle, operate
- Distinguish (by sight, observation, touch, cognitive knowledge)
- Perform (skilfully)

Using external assessors (e.g. wool-classing, AI and shearing courses) for this section of the PAT will support the assessment done by the teacher.

The assessment of these activities would include a comprehensive checklist or rubric and could be supported with a questionnaire or interview, which is completed while performing this activity. The questionnaire and interview could assess the context and application of the learner who is assessed and could be marked with a marking guideline.

Learners must spend at least 10 hours per term in a practical situation. Where possible, the time should be equally distributed between the production enterprises. Learners should be assessed on the time spent in these practical situations and on the complexity of their exposure.

The mark allocated for each practical done by a learner could be obtained by using a rubric or be a marking guide.

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2.2.3 Management test

The learners are exposed to various case studies or scenarios based on the annual production plan to which they have been exposed. The management test will represent examples of applications from the annual production plan and practical activities. These questions will be linked to the application of the knowledge.

This activity or task will be completed under controlled conditions as an individual activity. The assessment tool for this activity could include a marking guideline (memorandum), checklist and rubric or a combination of these.

	ASSESSMENT OF MANAGEMENT TEST				
Grade 10	Grade 10 Management test is based on general issues in the production processes of animals and plants to which the learners have been exposed				
Grade 11	Management test is based on specific issues in the production processes of animals and plants to which the learners have been exposed				
Grade 12	Management test is based on specific issues in the agribusiness production processes and processing of relevant animal and plant production enterprises to which the learners have been exposed				

2.2.4 Diary/Logbook (recording of time spent)

The affective domain, which includes aspects such as feelings, values, appreciation, enthusiasm, motivation, responsibility, and attitude, is important in Agricultural Management Practices. Farming is all about these aspects mentioned above and it should therefore be incorporated in the learner's assessment.

This section of the PAT should contain an indication of the time spent in a practical situation simulating the management aspects of an enterprise and should be recorded in the form of a diary at a production enterprise. For best practices these records should include time spent while doing daily responsibilities and tasks, gathering information, observing, evaluating, or demonstrating skills while at the production enterprise.

A list of the processes or activities to which the learners have been exposed should be included to indicate evidence of exposure to the major production activities that the available enterprises have to offer. This time should then be converted to a mark as percentage of the time spent doing the required activities.

The above guidelines should assist the teachers and guide them to develop appropriate activities for administering the PAT in AMP. It also provides the minimum standard for the PAT in AMP. More informal and more complex activities will be to the advantage of learners.

2.3 **PAT component summary and weightings**

PAT component	Number of activities		Weighting	Focus	
	Grade 10	Grade 11	Grade 12		
Management overview	1	1	1	20%	Planning
Practical tasks (activities)	6	6	4	50%	Operational skills
Management test	1	1	1	20%	Application
Logbook (Time register)	Diary/Logbook – Time spent while carrying out daily responsibilities and tasks		10%	Experience	

The practical assessment task (PAT) contributes 25% of the total promotion mark and should develop and apply agricultural management skills, processing skills and responsibility. The total mark allocation should add up to 100 marks. The PAT therefore focuses on the management skills as well as the development and application of various skills in the production process and processing of products in a production-related context.

Final mark

The final mark of the PAT is linked to these domains:

Management overview and test (Cognitive domain)		40
Practical activities and time allocation (Psychomotor and affective domain)		60
	TOTAL	100

2.4 **Layout of the PAT (examples)**

Guidelines for compiling a PAT in livestock production 2.4.1

ASSESSMENT	TOPIC	GRADE 10	GRADE 11	GRADE 12
TYPE		Basic principles and	Production-driven	Production-driven
		background of enterprises	(3 production enterprises)	(2 production enterprises)
		(3 crop and 3 animal)		
Management overview –	Production cycle: 1 enterprise	Determined by scenario	Determined by scenario	Determined by scenario
content	List of equipment needed/Inventory	List the equipment and facilities	Type and quantity	Cost calculations
expectation	Housing: housing preparation; handling facilities	Types of housing and handling facilities that needs to be controlled	Detailed information about housing	Costing and management aspects that must be implemented
(20%)	Handling and management	Reasons for proper housing and handling	Detailed information about handling	Costing and management aspects
	Period of growth	List of factors and management aspects	Detailed information about the management aspects	Calculations, costing and management aspects
	Gestation period	List of factors and management aspects.	Detailed information about the management aspects	Calculations, costing and management aspects
	Lactation period	List of factors and management aspects	Detailed information about the management aspects	Calculations, costing and management aspects
	Feeding	Types of feeding	Growth stages (phases) and numbers	Costing and calculations
	Bio-security, vaccination, veterinary procedures, medication and sanitation	List actions to implement biosecurity	Detailed information about medication: which medication, when to administer (stages), volumes/methods' Detailed information about the use of relevant chemicals, stages and volumes	Biosecurity prices, costing and calculations
	Farrowing, calving and lambing, kidding	Signs of farrowing, calving, kidding and lambing	Detailed information about the management	Management aspects to implement
	Record-keeping	Records to be kept	Actual record-keeping	Data capturing and interpretation
	Financial statements			Financial statements
	Harvesting; processing; marketing			Product harvesting, processing, value- adding, packaging, marketing and sales
	Agritourism			Investigate possible opportunities in your enterprise

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	GRADE 10 Basic principles and background of enterprises (3 crop and 3 animal)	GRADE 11 Production-driven (3 production enterprises)	GRADE 12 Production-driven (2 production enterprises)
Examples of topics for practical activities (50%)	 Handling course Pest and disease management Management activities: dosing, vaccination, dipping, etc. Care: new-born calves/piglets/ lambs, etc. marking, castration, dehorning Basic records: production, health, feeding, breeding and mating, etc. Classification of plant and animal breeds/cultivars (determine adaptability) 	 Management and care Dehorning, castration, marking, tail docking, teeth clipping, iron injections, etc. Animal judging course and body condition scoring (BCS) Reproduction/Al course Reproduction management, pregnancy testing, bull fertility, ICP, Al, etc. Feed requirements Daily management Breed characteristics (judging and selection) Performance testing 	 Harvesting: shearing, wool classing, milking, slaughtering Processing: wool, meat, milk, leather, etc. Price determination Financial planning Marketing Identify natural resources, e.g. veld types Determine grazing capacity and veld condition assessment Grazing systems Execution of planning Feed flow programme Analysing resources Production systems Herd composition SWOT analysis
Management test (20%)	Related to all the above enterprises	Related to all the above enterprises	Related to all the above enterprises
Diary (40 hours/year) (10%) of time spent/work done during practical in production enterprises Logbook (40 hours/year) (10%) of time spent/work done during practical in production enterprise (Register signed by learners and supervisor/mentor on the site)	Routine tasks and visits for practical activities	Routine tasks and visits for practical activities	Routine tasks and visits for practical activities

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2.4.2 Guidelines for compiling a PAT in poultry production (broilers or layers)

ASSESSMENT TYPE	TOPIC	GRADE 10 Basic principles and background of enterprises (3 crop and 3 animal)	GRADE 11 Production driven (3 production enterprises)	GRADE 12 Production driven (2 production enterprises)
Management overview	Production cycle: 1 enterprise	Determined by scenario	Determined by scenario	Determined by Grade 11 scenario
		Content expectation for grade	Content expectation for grade	Content expectation for grade
(20%)	List of equipment needed in housing	List of equipment	Numbers/Quantities needed as indicated in scenario	Cost calculations
	Preparation of housing before intake	Actions that must take place: material, chemicals, equipment, etc.	Detailed information about actions, e.g. what, when and amount/number.	Cost calculations based on numbers and volumes Management aspects that are required
	Before placement checklist	What must be controlled?	What must be considered	Actual costs, prices, cost calculations and the influence of management.
	Placement of birds	Actions that must take place during the process	Detailed information about actions, e.g. what, when and volume/amount	Cost calculations Management aspects that must take place in the process
	Period of growth	List of factors and management aspects that must considered during the period of growth	Detailed information about all management aspects named in Grade 10	Calculations and cost calculations and the influence management has on each of the aspects
	Feeding and stages of changes	Types	Dates and amounts	Prices and cost calculations
	Biosecurity, inoculations, medication and sanitation	List of actions that must take place and at what age	Detailed information about medication: which medication, when to administer (stages), volumes, methods Detailed information about the use of relevant chemicals, stages and volumes	Actual costs, prices, cost calculations and the influence of management
	Catching of birds/ collection of eggs	List of actions that must take place beforehand	Methods, preparation and detail about actions that take place during the period	Implications or influence of poor management aspects

ASSESSMENT	TOPIC	GRADE 10	GRADE 11	GRADE 12
TYPE		Basic principles and background of enterprises. (3 crop and 3 animal	Production driven. (3 production enterprises)	Production driven. (2 production enterprises)
Management overview –	Sanitation	List of actions that must take place	Detailed information about chemicals, volumes, actions, and dates	Actual cost calculations of chemical substances
content	Daily records	Types of records to be kept	Actual production records	
expectation (continued)	Financial aspects	The state of the s		Calculations of profit/loss based on actual expenditure and income as indicated in records
(20%)	Harvesting	List of actions	Methods, preparations, and detail about the actions that must take place during the period	Handling, sorting, grading, and packaging, storage
	Processing, value adding and marketing	34		Methods and examples of processing of the specific product and the marketing
	Agritourism	0,		Investigate possible agritourism opportunities in your enterprise
Examples of top activities (50%)	oics for practical	 Daily routines and responsibilities Handling – inoculation Basic management skills Identification – pests, diseases 	 Daily routines and responsibilities Growth recording Disease – inoculation (control/management) Execution of planning Pests and diseases control and prevention, 	 Slaughtering process Manufacturing, processing and value adding to products Marketing Collecting eggs, sorting and grading
Management tes	st (20%)	Related to all the above enterprises	Related to all the above enterprises	Related to all the above enterprises
Diary (40 hours/ spent/work done production bran Logbook (40 ho spent/work done production ente	year) (10%) of time e during practical in nches urs/year) (10%) of time e during practical in erprise d by learners and	Routine tasks and visits for practical activities	Routine tasks and visits for practical activities	Routine tasks and visits for practical activities

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Guidelines for compiling a PAT in crop/vegetable/fruit production 2.4.3

ASSESSMENT	TOPIC	GRADE 10	GRADE 11	GRADE 12
TYPE		Basic principles and	production driven	production driven
		background of enterprises	(3 production enterprises)	(2 production enterprises)
		(3 crop and 3 animal)		
Management	Production cycle:	Determined by scenario	Determined by scenario	Determined by scenario
overview	1 enterprise			
(20%)	Equipment needed to	List the equipment	Type and quantity	Production cost calculations
` '	carry out production task			
	Soil analysis	Study of soil profile and type of soil available	Soil sampling and analysis	Application of precision farming practices
	Soil preparation	Tasks to take place, material/	Detailed information regarding	Calculation of costs, management
		tools/equipment needed	tasks, when, what should be done	aspects to take place
	Preplanning control	What should be controlled?	What is important for a specific	
			crop?	
	Crop protection	List of actions	Detailed information regarding	Costing, general management and
	programme	9/,	when, how, types and volumes	calibration
	Plant/Planting	Planting methods, actions	Detailed information regarding the	Costing and management principles
		involved in the process	actions for instance when, how	
			much and what must be done	
	Plant growth period	List of factors and management	Detailed information regarding the	Yield predictions/determinations
		principles that should be	management factors and principles	
	Fertilisation practices	implemented during this period	Plant growth graphs	Coating and price determination
		Types and methods	Stages and quantities Methods, preparations and detail	Costing and price determination
	Harvesting and post- harvesting practices	List of actions	about the actions	Handling, sorting, grading and storage
	Record-keeping	Types of records to be kept	Actual record-keeping	Data capturing and interpretation
	record-keeping	Types of records to be kept	Actual record-keeping	Data capturing and interpretation
	Financial statements		*	Financial statements – budgets, etc.
	Processing, value adding			Processing, value-adding, packaging
	and marketing			and sales and SAFEX
	Agritourism			Investigate possible agritourism
				opportunities in your enterprise

Examples of topics for practical activities	GRADE 10 Basic principles and background of enterprises. (3 crop and 3 animal)	GRADE 11 Production driven (3 production enterprises)	GRADE 12 Production driven (2 production enterprises)
Examples of topics for practical activities (50%)	 Soil preparation Planting/Seedling transplanting process Care-taking/responsibility Weed identification Taking soil samples and types Composition of soils Seed germination tests Identification and scouting of pests, diseases Cultivation methods Irrigation system comparison 	 Calibration of spraying equipment Planter/Seedling planter calibration Disease, weed and insect pest control and prevention Pruning and trellising (plant manipulation techniques) Utilise soil sample analysis for fertiliser application (interpretation of soil sample), conduct soil fertilisation trials Types of herbicides/ weedicides and usage Soil aspects for particular crops and preparation Different implements Irrigation scheduling. Cultivar evaluation 	 Product specific Harvesting and classification Manufacturing, processing and value-adding to products Yield determination SAFEX course Grading, processing Marketing plan, packaging, marketing Management skills Fertiliser plan, calibration calculations Human resource planning and management Sustainable soil/land management
Management test (20%)	Related to all the above enterprises	Related to all the above enterprises	Related to all the above enterprises
Diary (40 hours/year) (10%) of time spent/work done during practical in production branches Logbook (40 hours/year) (10%) of time spent/work done during practical in production enterprise (Register signed by learners and supervisor/mentor on the site)	Routine tasks and visits for practical activities	Routine tasks and visits for practical activities	Routine tasks and visits for practical activities

2.5 Moderation of PAT

Internal moderation

The teacher and learners' portfolios of evidence (PoE) and PATs must be moderated by the head of department (HOD) or senior teacher of the subject at the school.

External moderation (subject specialist/subject advisor)

This moderation should preferably be done ONCE A TERM. The availability of a calendar sent to the subject specialist reflecting the planned dates of assessment activities (PAT programme of assessment) will assist the moderator to plan ahead for such moderation sessions. The external moderator can identify certain learners to complete certain tasks during the final moderation process.

External moderation (national panel)

A panel of moderators appointed by the national Department of Basic Education will moderate the PATs and observe facilities and resources at the school. (See ANNEXURE A for moderation tool). Proof of PATs completed should be presented if required.

3. LEARNER GUIDELINES

3.1 Instructions to the learner

Learners should know the assessment criteria before they start with each assessment task/activity.

- The learners' tasks should be presented in the back of their portfolios under each required section neatly divided with a partition.
- If the learner starts with the subject in Grade 11 or 12, he/she should complete all the required tasks of the previous year(s).
- There must be correlation in the work of Grades 10 to 12. Consecutive years' work needs to be kept and filed under separate sections of the portfolio.

3.2 Examples of tasks in the various components of the PAT:

- 3.2.1 Management plan
- 3.2.2 Practical activity
- 3.2.3 Management test
- 3.2.4 Diary/Logbook/Time register

3.2.1 Example of the management overview

PAT: MANAGEMENT OVERVIEW EXAMPLE

ANIMAL PRODUCTION: Broiler production TOPIC: Management overview of a broiler unit

Work sheet No.: 1.1	GRADE: 11
NAME:	DATE:

OVERVIEW:

The overall broiler performance is dependent on several management practices. Brooder management is one of the important aspects of broiler rearing and management. The early developmental stage becomes critical for the overall result and growth of the bird. Hence, care should be taken right from day one. Effective brooding management includes providing the chicks with the right temperature, relative humidity, air quality, good quality feed and water.

LEARNING OBJECTIVES:

Better management results in better productivity! You could be an experienced farmer or newly venturing into the poultry industry, but effective management is essential for the overall development and health of any animal production system. Hence, care should be taken from day one to achieve the following outcomes:

- Clean, disinfect and fumigate the shed and equipment.
- Check for the right temperature and humidity levels.
- Ensure chicks have immediate access to fresh water and feed.
- Use chick behaviour as an indicator of satisfactory temperature and air quality.
- Replenish feed constantly during the brooding period.
- Monitor and ensure chick feeding by crop fill scores.

PRE-VIEWING ACTIVITIES:

The environment in which the birds are reared is critical for their performance. In addition it would help if the farm is located closer to the production and marketing centres. A farm that has access to good roads and easy transportation has an added advantage.

POST-VIEWING ACTIVITIES:

Learners should be exposed to a real-life situation in managing a broiler house for a production cycle. During this activity, learners should keep records of various processes (like growth and food consumption rates, etc.) to determine the efficiency and the application of their knowledge.

INTERESTING FACTS:

Throughout the production cycle observe the batch for sick birds and conditions conducive to disease. Early diagnosis with prompt and adequate treatment will reduce death and production losses.

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The school was given 1 500 day-old broiler chicks to rear. Evaluate the farm's resources and determine the requirements of a broiler house that the school should build/erect to rear the 1 500 birds.

	cuss the importance of the following equipment needed in the broiler house:
(a) (b)	Floor litter Side curtains
Nan	ne THREE different types of litter material that could be used in the broiler house.
(a) (b) (c)	
(a) (b) (c)	Day old
	(i) (ii)
	how much of the following equipment is needed to ensure adequate water and space for the number of chickens stated in the scenario above:
(a) (b)	Water troughs Feed hoppers
	how many days should a unit be vacated before a new batch of chickens can be ed in the building?

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ENTERPRISE MANAGEMENT: CALENDAR

How to use the enterprise management calendar:

This management overview can be used for Grade 11. Grade 10 will reflect fewer activities that should be removed by the teacher. For Grade 12 the list should be more expanded to include the slaughtering, cleaning, and marketing aspects of the enterprise.

No dates are given on this calendar. Preparation before and after each cycle is the start and finish of a management process. The second column (Production Cycle) is blank for you to insert (fill in) the information required during that week or production stage. The third column gives a list of procedures/tasks that should be undertaken at specific intervals during the production cycle. Learners should arrange these working procedures/required tasks in the production cycle. This is not a complete list and may be added to or deleted from the programme based on your specific needs

MANAGEMENT CALENDAR FOR A BROILER PRODUCTION SYSTEM

Week (Days)	Production Cycle	Wo	rking Procedure/Required Tasks	Other Management			
	-	1/2	•	Practices			
1 (1–7)		Chick arrival – farm prep	paration				
, ,		 Provide chicks with big 	o-secure, clean housing.				
		 Control spread of dise 	ase by using single age, (i.e. all-in/all-out) housing.				
		 Spread litter evenly. Chick placement 					
		 Preheat the house and 	d stabili <mark>se temperature and humidity prior to chick arriv</mark>	al.			
2 (8–14)		 Unload and place chic 	ks quickly.				
		Make feed and water a	available to the chicks immediately.				
			that chicks can reach feed and water easily.				
		 Position supplementar 	y feeders and drinkers near the main feeding and drin	king			
		systems.	systems.				
0 (45, 04)			for 2 hours with access to feed and water.				
3 (15–21)		Check feed, water, ter	/here				
		necessary					
		Feeding management	15.15				
		Age	Feed Form and Size				
		0–10 days	Starter: sieved crumbs or mini pellets				
4 (22, 20)			Grower: 2–3,5 mm (0,08–0,125 inch) diameter				
4 (22–28)			pellets or coarse grinded mash				
		25 days to processing	Finisher: 3,5 mm (0,125 inch) diameter pellets				
			or coarse grinded mash				
		Preparation for catching					
		 Allow 3 days on full lig catching. 	during				
		Appropriate feed remo	is are				
		empty before processi					
			Irinkers for as long as possible	'			

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5 (29–35)	General management	
	Clean out broiler house and disinfect effectively use common laundry bleach.	
	Allow a 10–14-day rest period between each batch.	
	Use new litter for each batch.	
	 Allow sufficient space for the day-old chicks, 50 chicks to a square metre or 	
	(1,5 metres x 0,7 metres).	
6 (36–42)	Provide water fonts, 1 to every 40 chicks.	
,	Provide adequate feeders, 1 to every 40 chicks.	
	Provide fresh feed and clean water in cleaned water and feeders daily.	
	Provide initial brooding temperature of 33–39 °C at chick level decreasing by 1 °C each	
	day until the heat is no longer needed (14 days).	
	Increase floor space as chicks grow older to advance their growth. The chicks should	
7 (43–49)	triple their birth weight by the 7th day and double that weight by the 14th day. It should	
	be 0,09 m ² per bird at 49 days (7 weeks).	
	Continuously remove damp or caked litter from the house and replace with new, dry	
	litter.	
	Remove all dead birds from the house and burn or bury them.	
2 (52 52)	Seek professional advice when symptoms of sickness and trouble appear.	
8 (50–56)	In hot months, water consumption will increase so be prepared to fill non-automatic	
	water fonts/drinkers regularly.	
	Keep accurate records of the number of birds, mortality (death), culls, amount of feed	
	given and final weight.	
0 (57, 60)	Special procedures The procedure the binds are procedure to the binds are procedure to the binds are procedure.	
9 (57–63)	The environment in which the birds are reared is critical for their performance. In addition, it would help if the farm is located closer to production and marketing centres. A farm that	
	has access to good roads and easy transportation has an added advantage. When setting	
	up a farm there is a set of must-have requirements to be adhered to:	
	Water availability throughout the year. Water quality: Hardness below 750 ppm,	
	pH 6,0 to 8,5.	
10(64–70)	Ventilated shed and waterproof.	
10(04-70)	Lighting, tube light @ 1 for every 35 m² is essential.	
	Foot bath/Dip with disinfectant for better biosecurity.	
	Separate feed room near the shed with stacking arrangement for feed bags.	
	Water tank – 2 (1 for medication and 1 for drinking water) with capacity of 500 litres for	
	every 90 m ² .	
	Side curtain for the entire length of the shed for both sides, inside and outside.	
	Provision of death pit for disposal of dead birds.	
	Provision for placing weighing scales 0,90 m x 0,90 m.	
<u> </u>	a second present green green and a second present a second present a second present a second present and a second present a second	

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3.2.2 **Example of a practical activity**

PRACTICAL ACTIVITY

ENTERPRISE: Broiler production

TOPIC: Record-keeping in a broiler unit

Work sheet No.: 2.1	Grade : 10–11
Name	Date

Overview:

The overall broiler performance is dependent on several management practices. Brooder management is one of the important aspects of broiler rearing and management. The early developmental stage becomes critical for the overall result and growth of the chicks. Hence, care should be taken from day 1.

Pre-activities:

Divide learners into THREE groups. Each group will be responsible for the duties required to feed, clean and take care of the chickens for the relevant period.

Follow the daily routine for pen feeding strictly because that may influence your final mark. Remember you are responsible for the chickens if the task card is being completed. All feed needed should be weighed and recorded. All other tasks required in the section must also be performed.

Daily and routine tasks:

- Inspect the broiler house every day at the times allocated by the teacher. 1. You may work out a timetable with two people in your group to be on duty at any time. That includes weekends and sport afternoons.
- 2. Place as much feed as is necessary in the trough, there should always be enough feed, but not so much that there is wastage and spoilage.
- Record the amount of feed eaten. The easiest method is to record when a full bag is 3. opened, record the days used to fill feed hoppers and divide it into the mass of the full bag. That gives the amount of food used/day. Record all data gathered on the given record sheet.
- 4. Remove wet bedding/litter in the broiler house daily as soon as it becomes soiled.
- Weigh the chicks every 3rd day and record data on your record sheet. Plot the data 5. on a graph, calculate the daily gain, e.g. mass gain/feed period (days) = grams/day and feed conversion rate (FCR), e.g. feed given/mass gained = 1 kg feed used : kg meat gained.
- 6. Calculate the margin of cost of feed over the value of mass gain. Also calculate the slaughtering % of the birds once slaughtered.
- 7. Report any problems or sickness to the teacher in charge and indicate it on the record card.

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Number of chicks:	Description:	Feed cost/kg:
Ave. mass at beginning:		

Date	Day	Mass (20 chicks)	Mass change	Ave. mass	kg feed	A.D.G	F.C.R	Mortality
	1							
	2							
	3							
	4							
	5							
	6	4						
	7							
	8							
	9		71					
	10							
	11			0//				
	12							
	13				00			
	14				9.			
	15				C			
	16				,	7		
	17					<u> </u>		
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							

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Date	Day	Mass (20 chicks)	Mass change	Ave. mass	kg feed	A.D.G	F.C.R	Mortality
	26							
	27							
	28							
	29							
	30							
	31							
	32							
	33	10						
	34	4						
	35	4						
	36		1					
	37		1					
	38		C	0.				
	39			44				
	40			S				
	41				3			
	42				·C>			
	43				C			
	44					6		

3.2.3 Management test

NOTE: This test should contain all aspects done in the management overview, practical activities and experience gained when routine tasks were done.

EXAMPLE OF A MANAGEMENT TEST

Management Test: Grade 11	Date:
Examiner:	Moderator
Time: 30 minutes	Marks: 20

Answer all the guestions

Answer all the questions.							
SECTION A: POULTRY PRODUCTION: BROILERS							
1.	Write a brief answer next to the question number.						
	1.1	One tube light is sufficient for m².		(1)			
	1.2	The pH level of water that will be suitable for the ch	nickens is	(1)			
	1.3	How much water is needed for every 90 m ² ?		(1)			
	1.4	Indicate the initial temperature range for day-old ch	nickens	(2)			
2.	Discuss th	ne importance of floor litter in a broiler house.		(2)			
3.	State FIVE tasks that must be performed in the chicken house the moment that the chicks arrive.						
4.	You are planning to house 2 000 chicks in your chicken house. Calculate the amount of space needed when the chicks reach the age of 7 weeks (29 days).						
5.	A footbath	is essential for biosecurity.	_				
	5.1	Define biosecurity.	0	(2)			
	5.2	State the importance of a footbath to accomplish b	iosecurity.	(1)			
	5.3	Where will such a footbath be placed to be effective	e?	(1)			
6.	Indicate th	ne time (in days) that a broiler house must be vacated	d.	(1)			
			TOTAL SECTION A:	20			
SECTIO	SECTION B: ENTERPRISE 2 TOTAL SECTION B:						
SECTIO	SECTION C: ENTERPRISE 3 TOTAL SECTION C:						

GRAND TOTAL:

3.2.4 Example of a diary/logbook/time register

Learner	Name:	 	
LCarricr	vario.	 	

Date	Observations made in enterprise/Activities carried out	Time from	Time to	Number of hours
	4.			
	The state of the s			
	·C			
		,0)		

Name: _____

Signature:

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3.3 Absence, non-submission of tasks and non-participation in practical activities

The PAT forms 25% of the total promotion mark for the learner. Learners should complete all assessment activities that form part of the final PAT. Any failure to adhere to this will result in a mark that is calculated pro rata from the assessment sections and pieces available.

The absence of marks for the practical assessment task in Grades 10–12, without a valid reason, will result in the candidate registered for that particular subject receiving an incomplete result. The candidate will be given three weeks before the commencement of the final end-of-year examination of the relevant grade to submit the outstanding practical assessment task. Should the candidate fail to present the practical assessment task the candidate will be informed that he/she did not meet the minimum requirements and that he/she must repeat the subject the following year.

3.4 Requirements for presentation

All proof of assessment should be presented in the learner's subject portfolio under its own division for PAT. The management overview for Grades 11 and 12 should be presented in the Grade 12 portfolio to show continuity. Proof in the form of photographs showing the learner's involvement during the activities will support the final PAT mark.

3.5 **Timeframes**

Each school is unique regarding resources available and management. Each learner should receive a planned activity calendar at the beginning of the year informing them when certain activities should be executed/completed.

PAT COMPONENT	INITIATED	COMPLETED
Management overview	1 st term	End 2 nd term
Practical Activities	Grades 10-11/2 per term	3 rd term
	Grade 12/2 per term	2 nd term
Management test	Development of skills	4 th term: Grades 10–11
	throughout practical work	3 rd term: Grade 12
	and management plan	
Diary/Logbook	Continuous	1 st -4 th term: Grades 10–11
		1 st -3 rd term: Grade 12

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3.6 **Declaration of authenticity**

Declaration of Authenticity

All proof of assessment should be presented in the learner's subject portfolio under its own division for PAT.

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The following pieces of assessment for the PAT are included in the learner's portfolio of evidence (PoE):

- Management overview/task 1.
- 2. **Practical activities**
- 3. Management test
- 4. Date register of practical work and courses attended

At least 60% of the PAT was done under the supervision of the teacher and without the help of anybody else. This is to certify that all work submitted is the learner's original and own work. Processes not performed by the learner have not been assessed as part of the learner's work.

Learner		
Teacher	4/2	
District		
	Signature	Date
Learner		
Teacher		
Principal		

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4. LIST OF RESOURCES

- 4.1 Moderation tool (ANNEXURE A)
- 4.2 Marking tools (ANNEXURE B)
- 4.3 PAT mark schedule (ANNEXURE C)

5. CONCLUSION

On completion of the practical assessment task learners should be able to demonstrate their understanding of the industry, enhance their knowledge, skills, values, and reasoning abilities as well as establish connections to life outside the classroom and address real-world challenges. The PAT furthermore develops learners' life skills and provides opportunities for learners to engage in their own learning.

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ANNEXURE A

INTERNAL/EXTERNAL MODERATION TOOL **AGRICULTURAL MANAGEMENT PRACTICES**

SCHOOL: TEACHER: SUBJECT SPECIALIST: NO. OF LEARNERS IN GRADE:		EMIS NO GRADE: DATE:				
	OF LEARNERS TAKING AMI		ES 10–12:			
	Resources Available	Good ☑	Acceptable ☑	Poor ☑	Comments	
	Functioning farm					
	Relevant production					
	enterprises					
	Available human resources					
	Farm manager					
	Labourers					
	Recent funding					
	Fully equipped production *	2				
	units	1//				
	Teacher					YES⊠ NO⊠
						1100
	Subject file/Preparation file:					
	PAT guideline document		4/2			1102
	PAT guideline documentWorking mark sheet		S.			NOL
	 PAT guideline document Working mark sheet Proof of assessment 		C.	0		NOL
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) 		ormation and re	sources	s given to	NOL
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) Safety and equipment: 		ormation and re	sources	s given to	NOL
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) 		ormation and re	sources	s given to	
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) Safety and equipment: First aid kit Safety signs 	ional info		sources	s given to	
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implication 	ional info	on the farm	• (9	
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implicable of learners 	ional info	on the farm	• (9	
	 PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implicated by the OHS acts in pulled by the OHS acts 	emented in worksl	on the farm	• (9	
	PAT guideline document Working mark sheet Proof of assessment Reference material (Additite learners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implicable OHS Acts implicated by the OHS act Basic tools and equipment	emented in worksl :? t, implen	on the farm	• (9	
	PAT guideline document Working mark sheet Proof of assessment Reference material (Additive learners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implicable OHS Acts implicated by the OHS acts impl	emented in worksl :? t, implen	on the farm	• (9	
	PAT guideline document Working mark sheet Proof of assessment Reference material (Additilearners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implicable OHS Acts implicated by the OHS acts implica	emented in worksl :? t, implen	on the farm	• (9	
	PAT guideline document Working mark sheet Proof of assessment Reference material (Additive learners by the teacher) Safety and equipment: First aid kit Safety signs Applicable OHS Acts implicable OHS Acts implicated by the OHS acts impl	emented in worksl ?? t, implen ipment,	on the farm	• (9	

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Cleanliness of surroundings and sheds:

Farm area and enterprises clean

Sheds (storage houses) organised and clean

ANNEXURE A (continued)

Learner PAT project files	YESØ NO⊠
Is there a record of proof of planning by the teacher for the PAT?	
Did the learners follow the prescribed format of the PAT?	
If not, is the PAT of the same standard or higher than the prescribed PAT?	
Do all learners have PAT portfolio files?	
Do all learners have a completed Learner Summary Record Sheet in their portfolios?	
Do all learners have a document that indicates planning for practical activities as done by the teacher?	
Did all learners complete the Declaration of Authenticity?	
Did the learners complete all sections of the PAT sufficiently?	
Does evidence exist that all tasks were assessed by the teacher?	
Are all assessment tools completed and totals carried over to the mark sheet correctly?	
Does the assessment conducted by the teacher being fair, valid, and reliable?	
Is the mark allocation and level of achievement in line with the rest of the province?	
Will an adjustment of that average be needed?	
Overall quality of the project	YES⊠ NO⊠
Have all learners completed the PAT and has it been moderated?	
Do the marks allocated by the teacher in the rubrics match the available	
evidence in the learner's file?	
Internal/External moderation	YESØ NO⊠
Is there evidence of internal moderation by the HOD?	
Is there evidence of external moderation by the Subject Specialist/Advisor?	
Internal/External monitoring	YESØ NO⊠
Is there evidence of internal monitoring by the HOD?	
Is there evidence of internal monitoring by the Deputy Principal?	
Is there evidence of external monitoring by the Subject Specialist/Advisor?	
Additional information. Add typed lists of the following information:	
Additional information. Add typed lists of the following information: Add List of Equipment needed for AMP	

Conclusive Observations:

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ANNEXURE A (continued)

Signature: Teacher	Date	Signature: HOD	Date	
Signature: FET Subject Specialist	Date	Signature: Principal	Date	

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ANNEXURE B

MARKING OF THE PAT USING A RUBRIC

The following rubrics may be useful to determine the mark allocation for the learners.

NOTE: When using rubrics and ratings the following should be taken into consideration:

For example, in this 4-level rating:

Level 4 is the **Standard of excellence** level. Descriptions should indicate that all aspects of work exceed grade level expectations and show exemplary performance or understanding. This is a 'Wow!'.

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- Level 3 is the **Approaching standard of excellence** level. Descriptions should indicate some aspects of work that exceed grade level expectations and demonstrate solid performance or understanding. This is a 'YES' achieved!
- Level 2 is the Meets acceptable standard. This level should indicate minimal competencies acceptable to meet grade level expectations. Performance and understanding are emerging or developing but there are some errors and mastery is not thorough. This is a 'On the right track, but ...'.
- Level 1 is the **Does not meet acceptable standard yet**. This level indicates what is not adequate for grade level expectations and indicates that the learner has serious errors, omissions or misconceptions. This is a 'No, but ...'. The teacher needs to make decisions about appropriate intervention to help the learner improve.

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MANAGEMENT OVERVIEW: RUBRIC (the same rubrics can be adapted for the marking of other production enterprises) (See GRADE 10: CROP/VEGETABLE/FRUIT PRODUCTION MANAGEMENT OVERVIEW)

MANAGEMENT OVERVIEW	GRADE 10	LEVEL ACHIEVED											
Layout of production cycle –	Determined by scenario	1	2	3	4								
as determined by the	(what do you want the learner to	A few of the required	Some of the required	Most of the required	All the required elements								
available scenario	do under each aspect)	elements are offered.	elements are offered.	elements are offered.	are offered.								
	as amasi sasii aspesii	The required	The required information	The required	The required information								
		information is not clear.	is moderately clear.	information is mainly	is very clear.								
		The information is not	The information is	clear. Organisation of	The information is highly								
Aspects	Content expectation	organised.	moderately organised.	information is good.	organised.								
Tools needed to implement/	Equipment needed to achieve												
realise production task	the expectation in the scenario												
	 List of equipment (inventory) 												
Soil analysis	Study of soil profile and type of												
	soil available												
Soil preparation	Tasks that need to be done.	1/2											
	Equipment required	<i>()</i> ,											
Management before planting	What must be checked/done?												
	Cultivars selected and												
	reasons												
	Optimal plant date according												
	to rainfall distribution												
Planting	Plant methods, actions involved	4/											
	in the process												
	Production method followed												
Fertilisation practices	Types and methods		CAO										
	Fertilisation needs according		0,										
Cuan must satism mus museum	to soil analysis		*										
Crop protection programme Growth period	List of actions List of planning and												
Growth period	management actions to be												
	implemented over the period												
	(growth curve)												
Harvesting	List of actions		,0)									
Record keeping	Which records should be kept,												
	e.g.												
	Physical records												
	Tools												
	Rainfall etc.												
Financial aspects	Basic cost calculation												
Processing, value adding	Basic harvesting and packing												
and marketing													
MARK													
1	1				1								

GRADE 11: RUBRIC - CROP/VEGETABLE/FRUIT PRODUCTION MANAGEMENT OVERVIEW

	ROP/VEGETABLE/FRUIT PRODUCTION MANAGEMENT OVERVIEW											
MANAGEMENT OVERVIEW	5		LEVEL ACHIEVED									
Layout of production cycle -	Determined by scenario	1	2	3	4							
as determined by the	(what do you want the learner to	A few of the required	Some of the required	Most of the required	All the required elements							
available scenario	do under each aspect)	elements are offered.	elements are offered.	elements are offered.	are offered.							
		The required	The required information	The required	The required information							
		information is not clear.	is moderately clear.	information is mainly	is very clear.							
		The information is not	The information is	clear. Organisation of	The information is highly							
Aspects	Content expectation	organised.	moderately organised.	information is good.	organised.							
Tools needed to implement/	Type and amount											
realise production task	Tools required to operate											
	hectares as in scenario											
Soil analysis	Soil sampling and analysis	7.										
Soil preparation	Detailed information about tasks,											
• •	when to do	•										
Management before planting	What is important for a particular											
	crop											
	 Cultivars and reasons 											
	 Optimal plant date according to 											
	rainfall distribution and why											
	Optimal plant condition											
B. (1	(inter/intra row)											
Planting	Detailed information about actions, like when, how and how much and											
	what to do		()'-									
Fertilisation practices	Detailed information about when,											
r orumounon praenees	how, types and volumes		6,0									
Crop protection programme	Detailed information on planning and		0,									
Crop protoction programmo	management actions to be		• •									
	implemented over the period (growth											
	curve)											
Growth period	Fertilisation needs according to soil											
	analysis according to planned yield											
Hammad	Stages and quantities Violation attimations											
Harvest	Yield estimations											
Record-keeping	Purchases and use of current											
	assets											
	Labour Physical records about your											
	 Physical records about your enterprise, etc. 											
Financial aspects	Basic costs: seed, fertilisation and											
aiioiai aopooto	protection (health)											
Processing, value adding	Harvesting and packing											
and marketing												
MARK												
			l .									

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GRADE 12: RUBRIC - CROP/VEGETABLE/FRUIT PRODUCTION MANAGEMENT OVERVIEW

MANAGEMENT OVERVIEW	7/VEGETABLE/FRUIT PRODU		EL ACHIEVED		
Layout of production cycle – as	Determined by scenario	3	4		
determined by the available	(what do you want the learner to	A few of the required	Some of the required	Most of the required	All the required
scenario	do under each aspect)	elements are offered.	elements are offered.	elements are offered.	elements are
Socialis	ac under edem deposit,	The required	The required	The required	offered.
		information is not	information is	information is mainly	The required
	*	clear.	moderately clear.	clear. Organisation of	information is very
		The information is not	The information is	information is good.	clear.
		organised.	moderately	, and the second	The information is
	M.	· ·	organised.		highly organised.
Aspects	Content expectation		_		
Tools required/implements	Type and amount				
needed to realise production	 Costing for tools required to 				
task	operate hectares as in				
	scenario				
SWOT analysis and business	 Basic analysis and business 				
plan to obtain funding	plan and marketing plan				
Soil analysis	Soil sampling and analysis				
	 Application of practices in 				
	farming system				
Soil preparation	Detailed information about tasks,	4/			
	when to do.				
	 Costing, management aspects 				
	that must take place				
Management before planting	What is important for a particular		(/)		
	crop:				
	Cultivars and reasons		*()		
	Optimal plant date according				
	to rainfall distribution and why				
	Optimal plant condition		*		
	(inter/intra row)				
	(Combine with partial budget to				
Planting	make comparisons) Detailed information about actions				
rianung	like when, how and how much and				
	what to do.				
Fertilisation practices	Detailed information about when,				
1 Cranication practices	how, types and volumes				
	 Costing, general management 				
	and calibration				

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GRADE 12 RUBRIC CROP/VEGETABLE/FRUIT PRODUCTION MANAGEMENT OVERVIEW (continued)

GRADE 12 RUBRIC CRUP/	EGETABLE/FRUIT PRODUC	HON MANAGEMEN	NI OVERVIEW (COIL	unuea)	
Crop protection programme	Detailed information on planning				
	and management actions to be				
	implemented over the period				
	(growth curve).				
	Cost and management				
	principles				
Growth period	Stage and quantities				
	 Cost calculation and pricing 				
	soil analysis and planned				
	returns				
	(Combine with partial budget to				
	make comparisons)				
Harvest	Harvesting				
Methods, precautions and details	Pre-harvest analysis				
of the required actions	 Crop forecasts/planning 				
	 Handling, sorting, grading and 				
	storing				
Record-keeping	Data handling and interpretation				
	 Purchases and use of current 				
	assets				
	Labour				
	Physical records				
Financial aspects	Financial statements/budgets etc.				
	Budgets, etc.		6.0		
	 Keeping examples of the 		0,		
	different statements		• • •		
Processing, value adding and	Processing, value added,				
marketing	packaging and sales/SAFEX				
Agritourism	Investigate the possibilities of				
MARK ALLOCATION	agritourism in your enterprise				
MARK ALLOCATION					

ANNEXURE B

RUBRIC FOR LEARNER INVOLVEMENT (can be used in collaboration with diary/logbook)

Criteria/Requirements	1	3	5
Responsibility	Follows prescribed or verbal	Follows written and verbal instructions with	Follows written and verbal instructions
(Leadership)	instructions with a lot of assistance.	limited assistance.	without assistance.
1	Indicates no sense for safety	Aware of the need for safety procedures,	Follows proper safety procedures.
	procedures, even with instructions.	but has difficulty to identify them without	Accepts responsibility easily and takes
	Shows no or little responsibility	guidance.	leadership during group work.
	towards the work.	Shows responsibility towards the work.	
Initiative	Uncertain about how to proceed.	Offers solutions or explanations for	Offers solutions or explanations for
(Planning and goal-	Needs a lot of assistance.	unexpected problems with guidance.	unexpected problems.
setting)	Recognises only noticeable errors in	Recognises errors in experimental	Ability to recognise problems or to
2	experimental methodology with a lot of	methodology with assistance.	anticipate problems and solve them
	assistance.		without assistance.
			Indicates errors in experimental method
		Y A	and results.
Technique	Clumsy and awkward handling of	Handles implements, tools, and apparatus	Method and systematic approach to tasks.
(Execution and	implements, tools, apparatus.	effectively.	Handles implements, tools and apparatus
organising)	Executes practical activities with	Adequate execution of practical	with self-confidence.
3	difficulty.	procedures.	Skilled execution of practical procedures.
Endurance	Practical tasks and written work	Required practical tasks and written work	Required tasks and written work are
(Leadership and	incomplete.	completed with motivation.	complete.
motivation)	Somehow not interested in and	Shows some interest in execution of tasks.	Positive attitude, good motivation.
4	impatient about the execution of the	Willingness to execute repeating	Willingness to execute repeating
	tasks.	procedures with motivation.	procedures.
	Inclined not to repeat procedures.	Y	
Quality	Hastens through practical tasks.	Proper practical work with satisfactory to	Proper practical work.
(Evaluating, control	Superficial with less attention to	good results.	Evidence of detail to acquire good results.
and coordinating)	complete product.	Written work mostly accurate and clearly.	Written work is neat, accurate and clear.
5	Written work inaccurate and poor.		

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ANNEXURE C

AGRICULTURAL	MANAC	SEMENT	ΓPR <i>A</i>	ACTIO	CES -	- PAT	MAR	K SC	CHED	ULE									AININE	AURE C
SCHOOL:	CENTRE NO:									EMIS NUMBER:										
CIRCUIT:		DISTRICT:								YEAR:										
			PF	RAC									actio		s 10–	12				
		Management Practical aspects Management (Developing skills)									agemen	t test	Logbook		Final PAT Mark					
ame of Learner	1.1 Manage- ment Plan	2.1 2.2 2.3 2.4 2.5 2.6 2.6 2.8							TOTAL	Convert	3.1	3.2	Convert		Convert					
		20) .				50			20		10	100
											O									
												370								
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otal Marks														-						
lass Average Learners pass														- (
Learners pass															V	<u> </u>				
TEACHER:	SIGNATURE OF TEACHER:									DATE:	: 									
PRINCIPAL:	SIGNATURE OF PRINCIPAL:										DATE:	: <u> </u>								
MODERATOR:	SIGNATURE OF MODERATOR:									DATE:										