2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL TECHNOLOGY: GRADE 10 (TERM 1)



TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
CAPS TOPIC	(CAPS PG. 14) SAFETY					(CAPS PG. 15) STRUCTURAL MATERIALS				
CONCEPTS, SKILLS AND VALUES	OHS Act: Introduction to the OHS Act: Familiarise the learners with relevant workshop practices and regulations applicable to the farm workshop so that they can conduct themselves appropriately in the workshop: protective clothing, ear protection and eye protection	General workshop rules: Safety when working on or under a motor vehicle in the workshop, injuries in the workshop (cuts, bruises, eye injuries, burns and bone fractures)	Electrical safety: General electrical safety rules, situations that can cause electrical shock to workers, actions that should be taken to secure the person that has sustained an electrical shock, reduce the risk of electrical injury with overhead power lines reduce the risk of contact with overhead power lines	fire extinguishers, he extinguisher, when to extinguisher, types of fire extinguishing characteristics. Basic general safety handling and safety to all workshop equipequipment as well as	nergency evacuation, bw to use a fire o use a fire of fire extinguishers, art regulations: Safe regulations applicable oment, farm is skills and ites must be dealt with	Metals: Ferrous metals: Mild steel identification and uses of mild steel products: beams, purlins, square tubing, square bar, lip channel, angle iron, round tubing, and round bar Corrosion: Types and protection against corrosion: Hardening and softening of steel, tempering, annealing and case hardening	Timber: Timber used on the farm: Uses and properties of: Pine, wattle, blue gum, poplar and meranti, protection of timber products: Timber, posts/poles beams, timber doors: types, construction and uses	Building: Basic components of a concrete mixture: Cement, sand, stone/aggregate, water, and cement bricks, building mixtures: Concrete, mortar and screed	Fencing: Types of wire, fences and netting: sheep, cattle, game, types of wire strands: Barb wire, binding wire, galvanised steel wire, type of wire netting: Bonnox, jackal proof, chicken mesh. Components of a fence: Posts: types and uses, droppers: Types and uses, anchors and supports: Types, uses and basic sketching, gates: Placing, erecting and basic sketches	Revision/Consolidation
REQUISITE PRE- KNOWLEDGE	Link with Grade 8 and 9 Agricultural studies									
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Internet/videos/practical demonstrations	Internet/videos/practical demonstrations	Internet/videos/practical demonstrations demonstrations		Internet/videos/practical demonstrations	Internet/videos/practical demonstrations	Internet/videos/practical demonstrations	Internet/videos/practical de	monstrations	
INFORMAL ASSESSMENT, REMEDIATION	Past examination papers/tests/practical tests	Past examination papers/tests/practical tests	Past examination papers/tests/practical tests	Past examination pa tests	pers/tests/practical	Past examination papers/tests/practical tests	Past examination papers/tests/practical tests	Past examination papers/tests/practical tests	Past examination papers/te	ests/practical tests
SBA (FORMAL ASSESSMENT)	the PAT proje				earners must start with the second part of the PAT (manufacturing) of he PAT project/product (four half-hour periods must be allocated for his per cycle/week)				TASK 2: TEST (75%) min	imum 100 marks

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2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL TECHNOLOGY: GRADE 10 (TERM 2)

TERM 2		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
CAPS TOPIC	(CAPS PG. 17) ENERGY			(CAPS PG. 17) CONSTRU							
CONCEPTS, SKILLS AND VALUES	Electrical energy: 12 Volt DC current: Basic principles of electrical energy: Current, amperes, resistance and potential difference, standard symbols and units as applicable to DC circuits, basic calculations	Basic components in a basic electrical ignition system of a motor vehicle – working, function and problem solving: battery, ignition coil, distributor, spark plug, ignition timing		Basic components of the electrical circuit of a motor vehicle: Fuses, lights, wires, trailer coupling plug for vehicles (male and female plugs)		Arc welding: safety, protective clothing, hazards associated with arc welding, arc welding machine: Basic construction, and working, arc welding electrodes, basic arc welding principle, welding defects			Soft soldering: application and methods, equipment used, types of solders, fluxes, safety	Hard soldering: brazing: application and method, equipment used, type of welding rod, fluxes, safety	Revision/Consolidation
REQUISITE PRE- KNOWLEDGE	Link with Grade 8 and 9 Agricultural studies										
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Internet/videos/practical demonstrations	Internet/videos/practic	al demonstrations	Internet/videos/practical der	monstrations	Internet/videos/praction	cal demonstrations		Internet/videos/practical demonstrations	Internet/videos/practical demonstrations	
INFORMAL ASSESSMENT, REMEDIATION	Past examination papers/tests/practical tests	Past examination pape	ers/tests/practical tests	Past examination papers/tes	sts/practical tests	Past examination pap	ers/tests/practical test	s	Past examination papers/tests/practical tests	Past examination papers/tests/practical tests	
SBA (FORMAL ASSESSMENT										TASK 3: JUNE EXAMINA of 100 marks	ATION (100%) minimum

2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL TECHNOLOGY: GRADE 10 (TERM 3)

TERM 3		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
CAPS TOPIC	(CAPS PG. 19) TOOLS AND EQUIPMENT										
CONCEPTS, SKILLS AND VALUES	Tools, equipment, implements Hack saw and junior saw, ham cold chisels: Flat, cross-cut and Combination, long nose, round wood and concrete, measuring callipers, micrometre and comb and rivets, spanners, Ring, cor Function	Horticulture cultivation tools: Identification, function: <i>Garden tools</i> : Spade fork and rake, power <i>tools</i> : Lawn mower and brush cutter, animal drawn implements: Plough, planter, basic primary cultivation implements: Parts, function and maintenance: Plough, ripper, disk, offset, wonder tiller, disk plough			Engines: Working, con and diesel; Service of cleaning, vehicle comp temperature control of	Revision/consolidation					
REQUISITE PRE- KNOWLEDGE	Link with Grade 8 and 9 Agricu	ultural studies									
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Past examination papers Past examination papers Past examination papers Past examination papers								Previous exam papers/revision tests/tutoring		
INFORMAL ASSESSMENT REMEDIATION	Questions from past papers, te Practical work	ests			Questions from past pa Practical work	pers, tests		Questions from past pa Practical work	apers, tests		
SBA (FORMAL ASSESSMENT										TASK 4: TEST (100%)	minimum of 100 marks

2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL TECHNOLOGY: GRADE 10 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8-10 FINAL EXAMINATION				
CAPS TOPIC	(CAPS PG. 20) IRRIGATION	I AND WATER SUPPLY				ASK 6: FINAL EXAMINATION (MINIMUM 200 MARKS) (30 % OF YEAR MARK)						
CONCEPTS, SKILLS AND VALUES	Basic water pumping method power head Micro irrigation systems: Wol irrigation	-	·		Water supply to animals safety principles, trough pipes, reservoirs		Revision/Consolidation	PAPER Marks: 200 Time: 3 hours Learners must answer all 6 questions.				
REQUISITE PRE- KNOWLEDGE	Link with Grade 8 and 9 Agri	cultural studies/Previous c	ontent			Section A: Question 1 (40 marks) • Short questions						
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Past examination papers				Past examination paper	S	Past examination papers	Section B: (160 marks) • Question 2 (35 marks): Structural materials and related drawings, measurements and safety • Question 3 (20 marks): Electric energy and related tools, materials and safety • Question 4 (35 marks): Skills and construction processes and related tools, materials, drawings, measurements and safety				
INFORMAL ASSESSMENT, REMEDIATION	Questions from past papers, tests Practical work Questions from past papers, tests Practical work							Question 5 (40 marks): Tools, implements and equipment and related tools, materials, drawings, calibrations and safety Question 6 (30 marks): Irrigation and water supply, related tools, materials, drawings,				
SBA (FORMAL ASSESSMENT)	PAT (Task 5) must be finished in this term (2 weeks before final examination) Marks must be awarded according to the guidelines provided for the final product Preparation for (Task 6):							measurements and communication See CAPS for cognitive levels				