

2021 Post – Covid: National Revised ATP: Grade 11 – Term 1: CIVIL SERVICES

TERM 1	Week 1	Week 2	Week 3	Week 4	Week5	Week 6	Week 7	Week 8	Week 9	Week 10	
(45 days)	27-29 Jan	1-5 Feb	8-12 Feb	15-19 Feb	22-26 Feb	1-5 March	8-12 March	15-19 March	23-26 March	29-31 March	
	(3 days) OCCUPATIONAL	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days) GRAPHICS AS	(4 days) GRAPHICS AS	(3 days) COMPLETION OF	
	HEALTH AND	MATERIALS	MATERIALS	MATERIALS	EQUIPMENT AND TOOLS	EQUIPMENT AND TOOLS	EQUIPMENT AND TOOLS	MEANS OF	MEANS OF	ASSIGNMENT/PAT	
CAPS Topics	SAFETY ACT 85	(Generic)	(Generic)	(Generic)	(Generic)	(Generic)	(Subject specific)	COMMUNICATION	COMMUNICATION	7.001011111211717171	
0711 0 10p100	of 1993 (OHS)	(Ocherio)	(Octiono)	(Octiono)	(Generic)	(Generic)	(Subject specific)	(Generic)	(Generic)		
	(Generic)							,			
	Application of the OHS	Application and uses	Bricks and Blocks:	Glass:	Identification, proper	Identification, proper	Identification, proper	Make advanced	Freehand sketches		
	Act pertaining to:	of the following:	Clay and cement	Properties and uses	use and care of the	use and care of the	use and care of the	drawings by applying	relevant to the super		
	Personal safety:			of:	following:	following:	following:	various scales:	structure of a building		
	Clothing	 Concrete 	Ferrous metals:	 Clear sheet glass 	Basic site equipment:	Woodworking tools:		Instrument			
	Head protection	 Screed 	Grey cast iron	 Translucent glass 	Round shovel	 Roof square 	Cutting tools:	drawings (related	Basic computer-aided		
	• Eye and ear	 Mortar 	Ductile cast iron	 Safety glass 	Wheelbarrow	Rip saw	 Cold chisels 	to building	drawings		
	protection • Footwear	Coarse agregates	Wrought iron		Square shovel	Cross cut saw	 Tin snips (Bent, 	industry)	Interpretation of		
	General safety:	Fine aggregates	Malleable iron	Synthetic	Spade Pick	Claw Hammer Crow bar / Claw	straight &	 Orthographic 	drawings:		
	Hand tools	CementLime	Low carbon steel	materials	Dumpy level	bar	universal)	projection with	Site plan, floor plan		
	Power tools	Water	Stainless steel	Plastics Thermonlastics	Dumpy level	Mitre try square	 Files (flat, round, 	sections	and elevation of a		
	Small plant	• vvalei	Non-ferrous metals:	ThermoplasticsThermosetting	Hand tools:	Combination	square, triangular	 Different 	basic single storey		
	equipment	Timber: Hard wood,	Aluminium	plastics	Brick cutting tools:	square	and half round)	elevations of a	dwelling		
	Construction	soft wood and board	Bronze	Polythene	Comb hammer	Sliding bevel	Pipe threader	building			
	methods in the	products:	Copper	Polypropylene	Club hammer	 Cutting gauge 	(stocks and dies)	 Vertical sections 	Basic drawing symbols		
	workplace	 Saligna 	Lead	Polyvinyl chloride	Cold chisel	 Smooth, jack and 		indicating	relating to the built		
	Cofety and bealth	 Meranti 	• Tin	1 dijviniji dinanda	Bolster	trying plane	Holding tools:	labelling and	environment in		
	Safety and health aspects associated	SA Pine	• Zinc	Specific:	Brick hammer	Wood rasp	 Pliers 	measurements in	accordance with the SANS for building		01-12 April 2021 School holiday
	with storage of	Shutter board		Application and uses	DI (: ()	Cross pein hammer	Bench vice	accordance with the SANS for	drawings		20 ide
	materials:	Ply woodBlock board	Alloys:	of Solder and	Plastering tools: Float	Screwdrivers (flat		building drawings	diawings		ii i
	• On site	Tempered and	 Brass 	Ceramics	Plastering trowel	and Phillips	Fastening tools:	Isometric views			4
	In workshops	standard	Bronze		Hand hawk	blades)	 Spanners (ring, 	applicable to			A 10
Topics /Concepts,	Hazardous materials	masonite (hard			Straight edge	biados)	open ended and	construction			12 ho
Skills and Values	in the workplace. E.g.	board)			Block brush	Plumbing tools:	combination)				1-1 3C
	solids, liquids and	,			Corner trowels	 Universal pliers 	 Pop rivet 				0
	gases				Nose trowels	 Water pump pliers 	apparatus				
	HIV/Aids: preventative				Spirit level	Soldering iron	 Snapper or 				
	measures					Basin wrench	riveting tool				
						Dower tools	Groover or				
	Awareness of					Power tools: • Electric drill	seaming tool				
	substance abuse:					Bench grinder	Choot motal				
	• Drugs					Power	Sheet metal work machines:				
	Alcohol					screwdriver					
	Health risks					Angle grinder	Guillotine				
	associated with					Portable circular	Sheet bending				
	Infections and					saw	machine				
	exposure to raw					Radial arm saw	Pan and box handing machine				
	sewerage					Construction	bending machineRolling machine				
						machinery:	• Noming machine				
	General safety rules					Generator					
	to be observed when					(electricity supply)					
	soldering					Concrete mixer					
						 Plate compactor 					
						Rammer					



equisite pre- nowledge	Learners to know and understand the importance of safety	Learners to know and understand the different applications of material to select the best material to fit the purpose	Learners to know and understand the different applications of material to select the best material to fit the purpose	Learners to know and understand the different applications of material to select the best material to fit the purpose	Tasks to be done and tools needed to complete the task. Identification of tools	Tasks to be done and tools needed to complete the task. Identification of tools	Tasks to be done and tools needed to complete the task. Identification of tools	Knowledge of different drawings used in the built environment		
desources (other nan textbook) to nhance learning		Samples of each material Power point presentation You Tube videos	Samples of each material Power point presentation You Tube videos	Samples of each material Power point presentation You Tube videos	Examples of listed tools	Examples of listed tools	Examples of listed tools	Building plans		
Informal class test Work sheets Assignments		Practical activity in identification and explanation of materials Informal class test Work sheets Assignments	Practical activity in identification and explanation of materials Informal class test Work sheets Assignments	Practical activity in identification and explanation of materials Informal class test Work sheets Assignments	Practical activity in identification and explanation of use of tools Informal class test Work sheets Assignments	Practical activity in identification and explanation of use of tools Informal class test Work sheets Assignments	Practical activity in identification and explanation of use of tools Informal class test Work sheets Assignments	Informal class test/drawings Work sheets		
SBA Formal Assessmen	grades, it is recommend home. As the extent of learning	ded that the full duration o	f allocated teaching time b	e used for teaching and in ded that each school deve	nbedding principles and co	oncepts when learners are form of extra lessons (Mo	e attending school and that orning, afternoon or Saturo	em of one week at school at the activities related to the lay classes in order to reco	e topics taught be done b	y learners while at



2021 Post - Covid: National Revised ATP: Grade 11 - Term 2: CIVIL SERVICES

TERM 2 (54 days)	Week 1 13-16 April (4 days)	Week 2 19-23 April (4 days)	Week 3 28-30 April (3 days)	Week 4 3-7 May (5 days)	Week 5 10-14 May (5 days)	Week 6 17-21 May (5 days)	Week 7 24-28 May (5 days)	Week 8 31 May-4 June (5 days)	Week 9 7-11 June (5 days)	Week 10 14-18 June (4 days)	Week11 21-25 June (5 days)	
CAPS Topics	GRAPHICS AS MEANS OF COMMUNICATION (Subject specific)	GRAPHICS AS MEANS OF COMMUNICATION (Subject specific)	QUANTITIES (Generic)	QUANTITIES (Specific)	JOINING (Generic)	JOINING (Specific)	JOINING (Specific)	JOINING (Specific)	Revision	Revision	Revision/ Term Test	
Topics /Concepts, Skills and Values	Pattern development: Parallel line method Square shaped (square pipe, square elbow)	Pattern development: Parallel line method Round shaped (cylindrical pipe, cylindrical pipe elbow)	Calculate quantities of the following materials for a single room building up to wall plate level using dimension paper: Bricks Concrete (foundation and floor slab) Skirtings Quarter rounds	Calculate from given drawings the quantities of hot and cold water supply, fittings, waste water and soiled water drainage pipes for a small building (use of SI units of measurements)	Properties, use, precautions and application of the following adhesives: • Contact glue • PVC adhesives • Silicone • PVA wood glue • Epoxy • Mastic sealant	Joining of pipes Explain the various methods of cutting, joining, bending and securing pipe connections and fittings for copper, galvanized pipes and high- and low- pressure polythene pipes Label and explain the different parts of the joints from sectional sketches Explain the use of the following fixing agents: Chemical anchors Sleeve anchors Spring toggle fixing	Soft solder: Explain the process and apparatus Types of solder Properties of solder Soldering irons Tinning a soldering iron Flux (types and purpose)	Sheet metal: Drawing and explanation of stages of obtaining: Grooved seamed joints Overlap joints Pop rivet joints Calculating sheet metal allowance for joints taking into account preparation and where used The student should be able to mark out and cut sheet metal.				26June-12 July School Holiday
Requisite pre- knowledge	Basic drawing skills	Basic drawing skills	Basic mathematical skills Knowledge of the materials of which the quantities need to be calculated	Basic mathematical skills Knowledge of the materials of which the quantities need to be calculated	Learners need to understand the need and purpose of joining different materials	Learners need to understand the need and purpose of joining different materials	Learners need to understand the need and purpose of joining different materials	Learners need to understand the need and purpose of joining different materials				
Resources (other than textbook) to enhance learning	Drawing equipment	Drawing equipment	Calculator	Calculator	Examples of each of the listed adhesives	Examples of each of the listed fittings and fixing agents	Examples of soldering equipment, solder and flux	Examples of different sheet metal joints				



sment	Informal Assessment: Remediation	Informal class test/drawings Cutting and folding developed pipe parts to simulate the real object	Informal class test/drawings Cutting and folding developed pipe parts to simulate the real object	Informal class test Work sheets Assignments	Informal class test Work sheets Assignments	Practical activity in identification and use of different adhesives Informal class test Work sheets Assignments	Practical activity in identification and use of different fittings and fixing agents Informal class test Work sheets Assignments	Practical activity in soldering and use of flux Informal class test Work sheets Assignments	Practical activity in the making of sheet metal joints. Informal class test Drawings Work sheets Assignments			
ses		Term Test (Midyear Exam	ination is replaced with a te	rm test to be written in a C	ONE Hour period during	normal teaching time)						
As	SBA	PAT- Phase 2										
	Formal Assessment		used by each school to main duration of allocated teach									
			osses differ from school to s rate records of lessons to re						or Saturday classes in or	der to recover the lea	rning losses that were in	ncurred in 2020. Each



2021 Post - Covid: National Revised ATP: Grade 11 - Term 3: CIVIL SERVICES

	TERM 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	
	52 days)	13 -16 July (4 days)	19-23 July (5 days)	26-30 July (5 days)	2-6 Aug (5 days)	10-13 Aug (4 days)	16-20 Aug (5 days)	23-27 Aug (5 days)	30-31Aug- 3 Sept (5 days)	6-10 Sept (5 days)	13-17 Sept (5 days)	20-23 Sept (3 days)	
CAF	^o S Topics	CONSTRUCTION ASSOCIATED WITH CIVIL SERVICES (Subject specific)	CONSTRUCTION ASSOCIATED WITH CIVIL SERVICES (Subject specific)	COLD WATER SUPPLY (Subject specific)	COLD WATER SUPPLY (Subject specific)	COLD WATER SUPPLY (Subject specific)	HOT WATER SUPPLY (Subject specific)	HOT WATER SUPPLY (Subject specific)	ROOF WORK (Subject specific)	STORM WATER (Subject specific)	REVISION	REVISION	
	ics /Concepts, Is and Values	Concrete: • Methods and purpose of curing of concrete • Simple floor slabs e.g. slab for manhole • Placing of concrete • Compacting of concrete • Levelling of concrete	Brickwork: Drawings of: Front views Sectional views Consecutive layers as seen from above T-junction of half brick wall and one brick wall in stretcher bond four courses high	Installation and types of pipes used for cold water supply: Uses, advantages, disadvantages, depths of water mains and service pipes and the reasons for this. • Copper pipes • Galvanized pipes • Steel pipes • Non-metallic pipes (different classes of high density polyethylene pipes that must be used for water supply)	Joints and fittings for: Copper pipes Galvanized pipes Non-metallic pipes (high density polyethylene pipes) Valves: (Identify and label): Water meter Stop cock Full way valve Pillar tap Bib cock Ball valve Non-return valve	Laying pipes Procedure and line diagrams showing all details of the installation of cold water pipes underground. Explain the correct layout and installation of water supply to buildings as prescribed in the Code of Practice SABS 10252 Part 1. (Installation of water supply to buildings) Abbreviations and symbols used in cold water systems	Abbreviations and symbols: Explain abbreviations and symbols used in hot water systems Explain the working principles, installation, regulations, advantages and disadvantages of heating units: High pressure geyser (low and high pressure), latest technology e.g. evacuated tubes and flat plate collector solar system Hot water installation precautions	Abbreviations and symbols: Explain abbreviations and symbols used in hot water systems Explain the working principles, installation, regulations, advantages and disadvantages of heating units: High pressure geyser (low and high pressure), latest technology e.g. evacuated tubes and flat plate collector solar system Hot water installation precautions	Gutters: Drawings (Development) of corners, outlets and stop ends for rectangular gutters	Storm water: The methods of disposing large quantities of water from a dwelling to the municipal storm water system			24 Sept – 05 Oct School Holiday
	uisite pre- wledge	Basic knowledge of concrete	Knowledge of purpose of a brick bond and what bonding is	Understanding of different types of pipes and its uses	Understanding of the need for pipe joints and valves	Understanding of the need for cold water supply to a building	Understanding of the need for hot water supply to a building	Understanding of the need for hot water supply to a building	Purpose and advantage of gutters and its different parts	Knowledge of containing and channelling of water			
thar	ources (other textbook) to ance learning	Materials used for mixing concrete Power Point presentations You Tube video clips	Bricks to dry pack different bonds	Examples of each type of pipe listed	Examples of each type of pipe fittings and valves for demonstration Power Point presentations You Tube video clips	Pipes and fittings Power Point presentations You Tube video clips	Old high pressure geyser (Cut partly open to make inside visible Power Point presentations You Tube video clips	Old high pressure geyser (Cut partly open to make inside visible Power Point presentations You Tube video clips	Gutters, stop ends, outlets and down pipes Power Point presentations You Tube video clips	Power Point presentations You Tube video clips			
Assessment	Work sheets Class and homework activities Informal class tests	Practical activity in mixing concrete Work sheets Class and homework activities Informal class tests	Work sheets, Drawings Class and homework activities Informal class tests	Work sheets Class and homework activities Informal class tests	Practical activity in identification and explaining of valves Work sheets Class and homework activities Informal class tests	Practical activity in laying pipes Work sheets Class and homework activities Informal class tests	Practical activity in installation of a geyser Work sheets Class and homework activities Informal class tests	Practical activity in installation of a geyser Work sheets Class and homework activities Informal class tests	Practical activity in drawing and developing gutter outlets and stop ends. Freehand drawings Work sheets	Work sheets Class and homework activities Informal class tests			



								Class and homework activities Informal class tests		
SBA Formal Assessment	Term test PAT- Phase 2 (Complete Depending on the model of recommended that the full	,								
Assessment	As the extent of learning lo	osses differ from school to rate records of lessons to r	school, it is recommende	d that each school devel	op a recovery plan in the	form of extra lessons (M	lorning, afternoon or Sa		_	



2021 Post - Covid: National Revised ATP: Grade 11 - Term 4: CIVIL SERVICES

Term 4 (47 days)	Week 1 5-8 Oct	Week 2 11-15 Oct	Week 3 18-22 Oct	Week 4 25-29 Oct	Week 5 1-5Nov	Week 6 8-12 Nov	Week 7 15-19 Nov	Week 8 22-26 Nov	Week 9 29-30 Nov-3 Dec	Week 10 6-8 Dec	
CAPS Topics	(4 days) DRAINAGE (SEWARAGE) ABOVE AND BELOW GROUND (Subject specific)	(5 days) DRAINAGE (SEWARAGE) ABOVE AND BELOW GROUND (Subject specific)	(5 days) DRAINAGE (SEWARAGE) ABOVE AND BELOW GROUND (Subject specific)	(5 days) DRAINAGE (SEWARAGE) ABOVE AND BELOW GROUND (Subject specific)	(5 days) SANITARY FITMENTS (Subject specific)	(5 days) SANITARY FITMENTS (Subject specific)	(5 days) CONSOLIDATION, FINAL EXAM AND ASSESSMENT OF PAT	(3 days CONSOLIDATION, FINAL EXAM AND ASSESSMENT OF PAT	(3 days CONSOLIDATION, FINAL EXAM AND ASSESSMENT OF PAT	(3 days CONSOLIDATION, FINAL EXAM AND ASSESSMENT OF PAT	
Topics /Concepts, Skills and Values	Explain regulations governing drainage. Identify and explain abbreviations and symbols used in drainage systems Terms and definitions of: Waste water Waste water pipe Waste fixture Soil water Soil water pipe Soil fixture Sewage Drain Drainage installation	Pipe arrangements: Explanation of pipe arrangements of: Single stack and stub stack systems of plumbing, advantages and disadvantages.	Terms and uses of sanitary fitments: Waste Fixture: Sink Shower Bath Wash trough Soil fixtures: Water closet Urinal Bidet	Flushing devices: Identify and label sectional sketches, Iocation, purpose, advantages and disadvantages of: • Cistern • Flush valve Water traps: Explain the requirements for an efficient trap, identify and label sectional views and sketches, Iocation and function as well as the loss of water seals of traps (causes and prevention): • P-Trap • S-trap • Re-sealing trap • Bottle trap • Gulley trap • Grease trap	Sanitary fitments: Identification of working parts, the working principles and labeling of sectional sketches and the uses of the following sanitary fitments High- and low-level cisterns for water closets (advantages and disadvantages)	Sanitary fitments: Identification of working parts, the working principles and labeling of sectional sketches and the uses of the following sanitary fitments High- and low-level cisterns for water closets (advantages and disadvantages)					9 Dec- 00 Jan School Holiday
Requisite pre- knowledge	Basic knowledge of sanitation infrastructure	Basic knowledge of ventilation	Basic knowledge of different sanitary fixtures	Basic knowledge of properties of methane gas and how to contain it	Basic knowledge of listed sanitary fitments and what it is used for	Basic knowledge of listed sanitary fitments and what it is used for					
Resources (other than textbook) to enhance learning	Power Point presentations You Tube video clips	Sewerage pipes and fittings Power Point presentations You Tube video clips	Examples of different sanitary fitments and valves Power Point presentations You Tube video clips	Examples of all listed traps Power Point presentations You Tube video clips	Examples of different sanitary fitments Power Point presentations You Tube video clips	Examples of different sanitary fitments Power Point presentations You Tube video clips					



Asse t:	essmen	Work sheets Class and homework activities Informal class tests	Work sheets Class and homework activities Informal class tests	Practical activity on flushing devices Work sheets Class and homework activities Informal class tests	Practical activity on the functioning of different water traps Work sheets Class and homework activities Informal class tests	Work sheets Class and homework activities Informal class tests	Work sheets Class and homework activities Informal class tests			
SBA (Forr	Ą	Final examination		•	•					
(Forr	rmal)	Assessment of the PAT	г							
					is recommended that school eaching and imbedding princ					
					d that each school develop at should be closely monitore			ay classes in order to recove	er the learning losses that w	vere incurred in 2020.