

# 2021 Post – Covid: National Revised ATP: Grade 10 – Term 1: CIVIL SERVICES

TERM 1 (45 days)	Week 1 27-29 Jan (3 days)	Week 2 1-5 Feb (5 days)	Week 3 8-12 Feb (5 days)	Week 4 15-19 Feb (5 days)	Week5 22-26 Feb (5 days)	Week 6 1-5 March (5 days)	Week 7 8-12 March (5 days)	Week 8 15-19 March (5 days)	Week 9 23-26 March (4 days)	Week 10 29-31 March (3 days)	
CAPS Topics	OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS) (Generic)	OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS) (Generic)	OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS) (Generic)	MATERIALS (Generic)	MATERIALS (Generic)	MATERIALS (Generic)	MATERIALS (Generic)	EQUIPMENT AND TOOLS (Generic)	EQUIPMENT AND TOOLS (Generic)	COMPLETION OF ASSIGNMENT/PAT	
Topics /Concepts, Skills and Values	Requirements of the OHS Act pertaining to: Personal safety: Clothing Head protection Eye and ear protection Footwear General safety: Hand tools Power tools	Excavations Safe site planning and organisation Safe site working methods Fire prevention and protection Types of fires Fire extinguishers for specific types of fires Fire triangle (Oxygen, heat and fuel) Main causes of fire	Safety and health aspects associated with storage of materials: on site, In workshops Hazardous materials in the workplace. E.g. solids, liquids, gases and radioactive material HIV/Aids Awareness Awareness of substance abuse: Drugs Alcohol Specific Requirements of the OHS Act pertaining to: Safety risks associated with excavations Safe manual handling of heavy loads	Basic properties of materials:  Concrete Screed Mortar Coarse aggregates Fine aggregates Cement Lime Water	Basic properties of materials:  Timber: Hard wood, soft wood and board products:  Saligna Meranti SA Pine Shutter board Ply wood Block board Tempered and standard masonite (hard board)	Basic properties of materials:  Bricks and Blocks: Clay and cement  Metals: Ferrous metals: Grey cast iron Ductile cast iron Wrought iron Malleable iron Low carbon steel Stainless steel  Non-ferrous metals: Aluminium Bronze Copper Lead Tin Zinc	Basic properties of materials:  Adhesives: PVC adhesives Silicone Mastic sealants Synthetic materials: Thermoplastics Thermosetting plastics Polythene Polypropylene Polyvinyl chloride  Specific Knowledge of the different classes of copper and high density polythene pipes	Identification and proper use of the following:  Basic site equipment:  Round shovel Square shovel Spade Pick Wheelbarrow Metal pegs  Bricklaying tools:  Brick trowel Line block / corner block Gauge rod Tingle Pipe level  Setting out tools:  Line and pins Steel square Steel tape measure Folding rule (1 metre in length) Wooden or metal pegs Straight edge Spirit level	Identification and proper use of the following:  Jointing Tools: Long jointer Short jointer Pointing trowel Mastic trowel  Woodworking tools: Wooden mallet Try square Marking gauge Tenon saw Mortise chisel Files  Plumbing tools: Pipe vice Hack saw Pipe cutters (copper tube) Reamers Pipe wrenches (Stilson wrench) Gas torch Plumb bob Adjustable spanner or shifting spanner		01-12 April 2021 School holiday
Requisite pre- knowledge	Learners to know and understand the importance of safety	Learners to know and understand the danger of fire and how to prevent or contain a fire	Properties of different materials	Identification of materials	Identification of materials	Identification of materials	Identification of materials	Tasks that can be performed and the tools required for the task at hand	Tasks that can be performed and the tools required for the task at hand		
Resources (other than textbook) to enhance learning	Safety equipment	Power point presentation You Tube videos	Power point presentation You Tube videos	Examples of listed materials	Examples of listed materials	Examples of listed materials	Examples of listed materials	Examples of listed tools	Examples of listed tools		

#### 2021 Grade 10 Civil Services Revised ATP (Post Covid)



Informal class test Work sheets Assignments	Informal class test Work sheets Assignments									
SBA Formal Assessment	Assignment PAT- Simulation 1					•				



# 2021 Post - Covid: National Revised ATP: Grade 10 - Term 2: CIVIL SERVICES

	TEDMO	W. J. A	WI-O	WI-O	Wasta 4	Week E	Week C	W1-7	WI-O	WI-O	W1-40	W144	
	TERM 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week11	
	(54 days)	13-16 April	19-23 April	28-30 April	3-7 May	10-14 May	17-21 May	24-28 May	31 May-4 June	7-11 June	14-18 June	21-25 June	
		(4 days)	(4 days)	(3 days)	(5 days)	(5 days)	(5 days)	(5 days) QUANTITIES	(5 days)	(5 days)	(4 days)	(5 days)	
CAI	S Topics	Equipment and Tools	Graphics as means of communication	Graphics as means of communication	Graphics as means of communication	Graphics as means of communication	Graphics as means of communication	(GENERIC)	Revision	Midyear Examination	Midyear Examination	Midyear Examination	
CAI	o ropics	(SPECIFIC)	(Generic)	(Generic)	(Generic)	(SPECIFIC)	(SPECIFIC)	(GENERIC)				Examination	
		Identification and	Introduction to	Make basic drawings	Floor plan only of a	Pattern	Pattern	Calculate the					-
		proper use of the	graphics as a means	by applying various	two room	development:	development:	following:					
		following:	of communication:	scales:	rectangular building	Parallel line	a consistent	Volume of concrete					
		Cutting tools:	<ul> <li>Application of</li> </ul>	Orthographic	3.2.2.3	method	Round shapes	for a straight trench					
		•Pipe cutters (steel	SANS 0143 Building	projection	Introduction to	Basic geometrical	(cylindrical pipe)	Square meter of					
		pipe and link pipe	regulations in all	Isometric views	computer-aided	constructions		materials such as					
		cutter for cast iron	drawings	applicable to	drawings	relevant to pattern		tiles and brick walls					
Ton	ics /Concepts,	pipes)	Types of lines;	construction		development		Length of skirting					
	ls and Values	Madina afficala	dimensioning and	Instruments and		0		and quarter round					
		Marking off tools: • Punches (Centre	labelling (Code of Practice – SANS)	instrument drawings		Square shapes     (aguare pipe)		moulding					
		punch, prick punch)	Basic freehand			(square pipe)							
		• Scriber	sketching (related to										
		Dividers	building industry)										
			camaning manager										<b>&gt;</b> -
		Heating tools:											(a)
		Soldering iron											July iday
		Tasks to be done	Basic drawing skills	Basic drawing skills	Basic drawing skills	Basic drawing skills	Basic drawing skills	Basic mathematical					
		using tools						skills					TI
	uisite pre-	Identification of tools											<u> </u>
kno	wledge												
													<b>       </b>
		Examples of listed	Drawing equipment	Drawing equipment	Drawing equipment	Drawing equipment	Drawing equipment	Calculator					26June-12 School Hol
Res	ources (other than	tools						Power Point					
	book) to enhance							presentations					
	ning												
		Work sheets	Informal class	Informal class	Informal class	Informal class	Informal class	Work sheets					
			test/drawings	test/drawings	test/drawings	test/drawings	test/drawings	Class and homework					
	Informal		Work shoots	Work sheets	Work shoots	Work shoots	Work sheets	activities					
	Assessment:		Work sheets	vvork sneets	Work sheets	Work sheets	vvork sneets	Informal class tests					
	Remediation												
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Assessment		Midyear Examination	I	I	I	I	I	<u> </u>			I	I	
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As		PAT- Phase 2											
	SBA												
	Formal												
	Assessment												



## 2021 Post - Covid: National Revised ATP: Grade 10 - 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)	<b>19-23 July</b> (5 days)	<b>26-30 July</b> (5 days)	<b>2-6 Aug</b> (5 days)	10-13 Aug (4 days)	<b>16-20 Aug</b> (5 days)	<b>23-27 Aug</b> (5 days)	30-31Aug- 3 Sept (5 days)	<b>6-10 Sept</b> (5 days)	<b>13-17 Sept</b> (5 days)	<b>20-23 Sept</b> (3 days)	
CAPS Topics	QUANTITIES (SPECIFIC)	QUANTITIES (SPECIFIC)	JOINING (GENERIC)	JOINING (SPECIFIC)	JOINING (SPECIFIC)	JOINING (SPECIFIC)	CONSTRUCTION ASSOCIATED WITH CS (SPECIFIC)	CONSTRUCTION ASSOCIATED WITH CS (SPECIFIC)	COLD WATER SUPPLY (SPECIFIC)	STORM WATER (SPECIFIC)	REVISION TERM TEST	
Topics /Concepts, Skills and Values	Quantities: Determine from given drawings the quantities of elementary plumbing installations for the following: • Hot and cold water installation • Areas of surfaces • Use of SI units of measurements	Quantities: Determine from given drawings the quantities of elementary plumbing installations for the following: • Hot and cold water installation • Areas of surfaces • Use of SI units of measurements	Identify and explain the uses of: Screws: Countersunk head Round head Raised head Jetting screw Drywall screw Self-cutting bolt head screw Drill tip bolt head screw Coach screw Advantages of using screws over nails  Nails: Round wire Masonry Clout nail Steel cut nail Oval nail Panel pin Brad nails Advantages of using nails over screws	Joining of pipes: Identify and label from drawings, sketches and sectional views the various methods of joining: Copper Galvanized pipes High- and low- pressure polythene pipes  Advantages and disadvantages of each type	Soft solder:  • Knowledge of the process and apparatus  • Types of solder  • Properties of solder  • Soldering irons  • Tinning a soldering iron  • Flux (types and purpose)  Identify the following fixing agents:  • Chemical anchors  • Sleeve anchors  • Spring toggle fixing	Sheet metal Drawing sectional views of:     Grooved seamed joint     Overlap joints     Pop rivet joints     Solder joints	Concrete Mixing and mix proportions of concrete plaster and mortar (low, medium and high strength)  Brickwork: Drawings of front views, sectional views and consecutive layers as seen from above Corners (L shaped) of half brick wall and one brick wall in stretcher bond four courses high	Brickwork: Drawings of front views, sectional views and consecutive layers as seen from above Corners (L shaped) of half brick wall and one brick wall in stretcher bond four courses high  Setting out square angles: 3-4-5 method	Properties of water: Smell Taste Colour Boiling and freezing point Expansion and contraction Density Hardness Explanation of the natural water cycle, run-offs to dams and catchment areas Sources of water: (Advantages and disadvantages) Wells Boreholes Fountains Rivers Upland and lowland regions  Protection of pipes against frost  A brief explanation of a typical water purification process	Storm water: The safe disposal of storm water in the following ways: Roof gutters to water tanks, surface channels, hard surfaces, manholes, onto road kerbs, methods of channelling storm water to catchments areas.  Responsibilities of municipalities with regard to storm water disposal.  Regulations governing storm water disposal.		24 Sept – 05 Oct School Holiday
Requisite pre- knowledge	Basic mathematical skills	Basic mathematical skills	Understanding of the need for joining fixtures	Understanding of the need for joining fixtures	Understanding of the need for joining fixtures	Understanding of the need for joining fixtures	Basic drawing skills Purpose and advantage of brick bonds	Basic measuring and mathematical skills	Knowledge of where water comes from	Basic methods of containing and channelling of storm water		



tex	sources (other than tbook) to enhance rning	Calculator Power Point presentations	Calculator Power Point presentations	Examples of each type of screw and nail for demonstration Power Point presentations You Tube video clips	Examples of each type of Copper, Galvanised and HDPE joining fittings	Examples of soldering equipment, fluxes and joining fixtures	Examples of different sheet metal joints. Power Point presentations	Drawing equipment Bricks for dry packing of different brick bonds Power Point presentations You Tube video clips	Metal pegs, building line and steel tape measure Power Point presentations You Tube video clips	Water Power Point presentations You Tube video clips	Power Point presentations You Tube video clips	
Assessment	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	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	Practical activity making of joints and drawing each joint	Work sheets Class and homework activities Informal class tests	Practical activity in setting out square angles 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	
SSE		Term test										
4	SBA Formal Assessment	PAT- Phase 3										



## 2021 Post - Covid: National Revised ATP: Grade 10 - Term 4: CIVIL SERVICES

	T 4	M1-4	M1-0	14/1 0	1411-4	Wester	141 1. 0	1411-7	WI-O	14/1-0	1411-40	
	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	
	(41 days)	(4 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(3 days	(3 days	(3 days	
	S Topics	HOT WATER SUPPLY (SPECIFIC)	HOT WATER SUPPLY (SPECIFIC)	HOT WATER SUPPLY (SPECIFIC)	ROOFWORK (SPECIFIC)	SANITARY FITMENTS (SPECIFIC)	SANITARY FITMENTS (SPECIFIC)	CONSOLIDATION,FINAL EXAM AND ASSESSMENT OF PAT	CONSOLIDATION,FINAL EXAM AND ASSESSMENT OF PAT	CONSOLIDATION, FINAL EXAM AND ASSESSMENT OF PAT	CONSOLIDATION,FINAL EXAM AND ASSESSMENT OF PAT	
	ics /Concepts, s and Values	Introduction to hot water supply  Cold water supply to hot water systems Purpose, type, positioning and regulations of: Pressure reducing valves Pressure control valves Relief valve Safety valves related to hot water installations	Brief explanation of heat transfer in hot water installations:  Radiation Conduction Convection	Describe different hot water systems:  Balanced and unbalanced systems High and low pressure systems	Gutters (galvanised sheet metal gutters only): Knowledge of the purpose, identification, fall, material and methods of fixing and supporting rectangular gutters	Sanitary fitments: Identification of the following sanitary fitments along with their symbols: • W.Cpans • Wash hand basin • Bath • Shower • Sink • Bidets • Urinals	Sanitary fitments: Identification of the following sanitary fitments along with their symbols: • W.Cpans • Wash hand basin • Bath • Shower • Sink • Bidets • Urinals					. <b>00 Jan</b> Holiday
	uisite pre- wledge	Basic methods of heating water	Basic knowledge of heat transfer	Basic knowledge of pressure and the effect thereof	Purpose and types of gutters	Basic knowledge of available sanitary fitments and what it is used for	Basic knowledge of available sanitary fitments and what it is used for					9 Dec- 0 School H
than	ources (other textbook) to ance learning	Water supply pipe, old electric geyser Power point presentation You Tube videos	Soldering torch, steel bar, kettle with open element Power point presentation You Tube videos	Hosepipe and tap with hose connections Power point presentation You Tube videos	Gutter brackets and length of gutter with two stop ends and gutter outlet and down pipe	Examples of different sanitary fitments	Examples of different sanitary fitments					
Assessment	Informal Assessment: Remediation	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	Practical activity on installation of a gutter and down pipe 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					
Asse	SBA (Formal)	Final examination Assessment of th			miorinai olassi tests		I			I		