2021 Post – Covid: National Revised ATP: Grade 10 – Term 1: Construction

TERM 1 (45 days)	Week 1 27-29 Jan	Week 2 1-5 Feb	Week 3 8-12 Feb	Week 4 15-19 Feb	Week5 22-26 Feb	Week 6 1-5 March	Week 7 8-12 March	Week 8 15-19 March	Week 9 23-26 March	Week 10 29-31 March	
((3 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(5 days)	(4 days)	(3 days)	
CAPS Topics	INTRODUCTION OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS)	INTRODUCTION OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS)	INTRODUCTION OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS)	Materials: (GENERIC)	Materials: (GENERIC)	Materials: (GENERIC	Materials: (SPECIFIC)	Equipment and Tools (Generic)	Equipment and Tools (SPECIFIC)	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 HIV/Aids awareness Awareness of substance abuse: • Drugs • Alcohol	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 Definition and advantages associated with good housekeeping practice in the workshop and on site		Basic properties of materials of: • Concrete • Screed • Mortar • Coarse aggregates • Fine aggregates • Cement • Lime • Water	Timber hard wood, soft wood and board products: • Saligna, Meranti, SA pine, Shutter board,Ply wood • Block board , Tempered and standard masonite (hard board) Synthetic materials: • Thermoplastics, Thermosetting plastics, Polythene, Polypropylene and Polyvinyl chloride	Bricks and Blocks: • Clay and Cement Metal: 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 Adhesives: PVC adhesives, Silicone, Mastic sealants	Manufacturing processes of bricks: • Clay bricks: face, semi-face, stock • Cement bricks Differentiation between cellular and keyed bricks Advantages of bricks having holes over a solid brick	Identification and proper use of the following: Basic site equipment: Bricklaying tools: Setting out tools: Jointing Tools: Woodworking tools:	Woodworking tools: for e.g. Wooden mallet Plumbing tools: for e.g. Pipe vice, hack saw, etc. Adjustable spanner or shifting spanner Identification of the following: Setting out tool: dumpy level Brick cutting tools: for e.g. comb and club hammer, cold chisel, bolster and sledge hammer Plastering tools: for e.g. Wooden/plastic float, Plastering trowel, Hand hawk, Straight edge, Block brush, Corner trowels (internal and external), Nose trowels	Freehand sketches relevant to the building environment. •Interpretations of drawings: FIRST TERM COMPLETION OF ASSIGNMENT.	-12 April 2021 chool holiday
Requisite pre- knowledge	Personal safety, general safety, safety and health aspects associated with storage of materials, HIV/Aids and awareness of substance abuse	Personal safety, general safety, safety and health aspects associated with storage of materials, HIV/Aids and awareness of substance abuse		Basic knowledge on materials: concrete, mortar, timber, bricks, blocks, metals, adhesives and synthetic materials	Basic knowledge on materials: concrete, mortar, timber, bricks, blocks, metals, adhesives and synthetic materials	Basic knowledge on materials: concrete, mortar, timber, bricks, blocks, metals, adhesives and synthetic materials	Basic knowledge on materials: concrete, mortar, timber, bricks, blocks, metals, adhesives and synthetic materials	Knowledge on basic site equipment: Bricklaying tools: Setting out tools: Woodworking tools	Knowledge on basic site equipment: Bricklaying tools: Setting out tools: Woodworking tools		01- Sci
Resources (other than textbook) to enhance learning	Practical work can be do to the real life situation. Learners can do simulat explained in the textboo	one to expose learners YouTube, videos, etc. ions of first aid as		Materials as indicated in the content	Materials as indicated in Wall charts, videos on n		Videos, YouTube, powe data projector, interactiv Materials as indicated in	e whiteboard, etc.	Equipment and tools as indicated in the content topic. Site visit can be arranged to explain practical work. Basic materials must be shown as sizes are important. Workshop can be visit to explain the parts of the machines.		



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Assessment	Informal Assessment: Remediation	Test learners on content. Do practical to link content to real life situations.	Small informal test. Worksheet with practical situations.		Do practical work to show the different materials	Worksheets with materials on it. Informal test materials as indicated in the topic.	Worksheets with materials on it. Informal test materials as indicated in the topic.	Do informal testing by completing work sheet. Prepare worksheets from given examples in the textbook. Do drawings in class informally. Explain content within a practical lesson in the workshop. SBA - Informal Test to be written – Total = 50
	SBA Formal Assessment	Act, Act 85 of 1993,- Safe work practices are regular hand washing o	e types of administrative co	Introls that include procedu and rubs. Learners and tea	ures for safe and proper v	y Act, Act 85 of 1993, as amended, read with the Ha vork used to reduce the duration, frequency, or inten sh hands when they are visibly soiled and after remo	sity of exposure to a hazard. Examples of safe work	practices for SARS-CoV-2 ir



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Ith and Safety (OHS)

2 include. Requiring

2020 Post – Covid: National Revised ATP: Grade 10 – Term 2: Construction

	TERM 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
	(54 days)	13-16 April (4 days)	19-23 April (4 days)	28-30 April (3 days)	3-7 May (5 days)	10-14 May (5 days)	17-21 May (5 days)	24-28 May (5 days)	31 May-4 June (5 days)	7-11 June (5 days)
CAF	PS Topics	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	Graphics as means of communication	QUANTITIES (GENERIC)	Revision	Midyear Examination
Topics /Concepts, Skills and Values		Introduction to graphics as a means of communication: Application of SANS 0143 Building regulations in all drawings Types of lines; dimensioning and labelling (Code of Practice – SANS) Basic freehand sketching (related to building industry) Start with the PAT.	Freehand sketching and scale drawings Scale drawing of wall build in stretcher bond	Freehand sketching and scale drawings Scale drawing of wall build in stretcher bond	Freehand sketching and scale drawings Scale drawing of wall build in stretcher bond	Introductory concepts: Basic knowledge skills. Scale drawings	Introductory concepts: Basic knowledge skills. Scale drawings	Calculate the following: • Volume of concrete for a straight trench • Square meter of materials such as tiles and brick walls • Length of skirting and quarter round moulding		
	uisite pre- wledge	Pre knowledge of Grade 9 technology drawings. Knowledge of Technology Mini PAT should be established by the teacher.	Learners prior knowledge of communication in Technology.	Basic mathematical skills						
text	ources (other than book) to enhance ning		Drawing equipment	Drawing equipment	Drawing equipment	Drawing equipment	Drawing equipment	Calculator Power Point presentations		
Assessment	Informal Assessment: Remediation	Equipment and tools as indicated in the content topic. Site visit can be arranged to explain practical work. Basic materials must be shown as sizes are important. Workshop can be visit to explain the parts of the machines.	Make use of materials and test learner's ability to draw or sketch of a basic floorplan. Complete drawings on worksheets. Visit a computer lab and expose learners to hardware.	Make use of materials and test learner's ability to draw or sketch of a basic floorplan. Complete drawings on worksheets. Visit a computer lab and expose learners to hardware.	Make use of materials and test learner's ability to draw or sketch of a basic floorplan. Complete drawings on worksheets. Visit a computer lab and expose learners to hardware.	Make use of materials and test learner's ability to draw or sketch of a basic floorplan. Complete drawings on worksheets. Visit a computer lab and expose learners to hardware.	Make use of materials and test learner's ability to draw or sketch of a basic floorplan. Complete drawings on worksheets. Visit a computer lab and expose learners to hardware.	Work sheets Class and homework activities Informal class tests		
	SBA Formal Assessment	Midyear Examination PAT- Phase 2								



ie	Week 10 14-18 June (4 days)	Week11 21-25 June (5 days)	
on	Midyear Examination	Midyear Examination	
			July iday
			26June-12 July School Holiday
			Jun choc
			26 S

2020 Post – Covid: National Revised ATP: Grade 10 – Term 3: Construction

	TERM 3 <mark>52 days)</mark>	Week 1 13 -16 July (4 days)	Week 2 19-23 July (5 days)	Week 3 26-30 July (5 days)	Week 4 2-6 Aug (5 days)	Week 5 10-13 Aug (4 days)	Week 6 16-20 Aug (5 days)	Week 7 23-27 Aug (5 days)	Week 8 30-31Aug- 3 Sept	Week 9 6-10 Sept (5 days)	Week 10 13-17 Sept (5 days)	Week 11 20-23 Sept (3 days)	
CAF	'S Topics	QUANTITIES (GENERIC)	QUANTITIES (GENERIC)	QUANTITIES (GENERIC)	JOINING (GENERIC)	JOINING (GENERIC)	JOINING (SPECIFIC)	JOINING (SPECIFIC)	(5 days) FOUNDATIONS	FOUNDATIONS	COMPLETION OF ASSIGNMENT/PAT	TERM TEST	
	ics /Concepts, Is and Values	Introductory concepts: Quantities on volume of concrete for a straight trench,.	Square meter of materials for tiles and brick walls, length of skirting etc	Introductory concepts: calculation of area of foundation, volume of sand, stone cement and water etc.	Basic joining content (will be used to join other materials in grade 11 and 12) Screws and nails	Basic joining content (will be used to join other materials in grade 11 and 12) Screws and nails	Introductory concepts: Methods of joining: steel to concrete, wood to concrete and existing concrete to fresh concrete	Introductory concepts: Methods of joining: steel to concrete, wood to concrete and existing concrete to fresh concrete	Important content on foundations: purpose, types, strip and step foundations, Compaction of soil.	Important content on foundations: purpose, types, strip and step foundations, Compaction of soil.			
Req	uisite pre- wledge	Introduction to SI units Calculation of the following: • Area of foundation • Volume of sand • Volume of cement • Volume of stones • Volume of water Quantities for a small building up to floor level	Introduction to SI units Calculation of the following: • Area of foundation • Volume of sand • Volume of cement • Volume of stones • Volume of water Quantities for a small building up to floor level	Introduction to SI units Calculation of the following: • Area of foundation • Volume of sand • Volume of sand • Volume of stones • Volume of water Quantities for a small building up to floor level	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, Clout nail • Brad nails Advantages of using nails over screws	Methods of joining the following items: • Steel to concrete • Wood to concrete • Existing concrete to fresh concrete	Methods of joining the following items: • Steel to concrete • Wood to concrete • Existing concrete to fresh concrete	Foundations: • Purpose and functions • Types of soil and soil conditions • Strip and step foundations • Excavations in different types of soil	Five principle reasons to compact soil: • Increases load- bearing capacity • Prevents soil settlement and frost damage • Provides stability • Reduce soil contraction, swelling and water seepage • Reduce settling of the soil			24 Sept – 05 Oct School Holiday
	ources (other than book) to enhance ning	YouTube, wall charts, calculators, quantities workbook.	YouTube, wall charts, calculators, quantities workbook.	YouTube, wall charts, calculators, quantities workbook.	YouTube, wall charts, calculators, quantities workbook.	Materials for eg: Nails and screws.	Sketches work. Scale drawings – how to interpret drawings. Knowledge on glues.	Sketches work. Scale drawings – how to interpret drawings. Knowledge on glues.	Sketches work. Scale drawings – how to interpret drawings.	Bricks Plastering Mortar Sketches of beam filling.			
Assessment	Informal Assessment: Remediation					Informal tests and peer marking. Open book tests.	Short tests and peer marking. Practical work as set out in the text book.	Short tests and peer marking. Practical work as set out in the text book.					
Asse	SBA Formal Assessment	Term test PAT- Phase 3	1	1	1	1	1	1	1	1	11		



2020 Post – Covid: National Revised ATP: Grade 10 – Term 4: Construction

T	erm 4	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
(4	7 days)	5-8 Oct	11-15 Oct	18-22 Oct	25-29 Oct	1-5Nov	8-12 Nov	15-19 Nov	22-26 Nov	29-30 Nov-3 Dec	6-8 Dec	
CAPS	lopics	(4 days) CONCRETE AND BRICKWORK	(5 days) CONCRETE AND BRICKWORK	(5 days) CONCRETE AND BRICKWORK	(5 days) FORMWORK	(5 days) FORMWORK	(5 days) FORMWORK	(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	
	/Concepts, ind Values	Important content on concrete: definition, site preparation, mix proportions etc	t on definition, site preparation, mix te: proportions etc on, site ation, mix		Introductory concepts on formwork	Introductory concepts on formwork	Introductory concepts on formwork					
Requis knowle		proportions etcCONCRETE AND BRICKWORK (Specific)Definition of concrete• Site preparation of placing concrete• Mix proportions for low, medium and high strength concrete• Types and purpose of admixtures to concrete• Types and purpose of admixtures to concrete• Purpose of slump test• Equipment used for slump test• Outcomes of slump test• Outcomes of slump test		Definition of formwork • Definition of striking of formwork • Factors to be observed when striking of formwork	Purpose of formwork Treatment of formwork before and aftercasting of concrete	Materials used for formwork for square and circular columns wood and steel Label drawings of square and circular columns					<mark>9 Dec- 00 Jan</mark> School Holiday	
than tex	rces (other ktbook) to ce learning	Pre-knowledge of concrete and material	Spacers used with rei Curing devises, re And bricks for bor	einforcement	Formwork practical	Formoils and curing	Squre and round Columns shapes/models					
A	nformal ssessment: emediation	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 on installation of a gutter and down pipe Work sheets	Class and homework activities Informal class tests					
Asse	BA (Formal)	Final examination Assessment of the										

