basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

2023/24 ANNUAL TEACHING PLANS: WOODWORKING: GRADE 11 (TERM 1)

TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
CAPS TOPICS	**INTRODUCTION: OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS)**	**MATERIALS (GENERIC)**	**MATERIALS (GENERIC)**	**MATERIALS (SPECIFIC)**	**EQUIPMENT AND TOOLS (SPECIFIC AND GENERIC)**	**EQUIPMENT AND TOOLS (SPECIFIC AND GENERIC)**	**EQUIPMENT AND TOOLS (SPECIFIC AND GENERIC)**	**GRAPHICS AS A MEANS OF COMMUNICATION (GENERIC)**	**GRAPHICS AS A MEANS OF COMMUNICATION**	**COMPLETION OF ASSIGNMENT/1ST PHASE OF PAT**	
TOPICS/CONCEPTS, SKILLS AND VALUES	Application of the OHS Act pertaining to: Personal safety: • Clothing • Head protection • Eye and ear protection • Footwear General safety: • Hand tools • Power tools • Small plant equipment • Construction methods in the workplace Safety and health aspects associated with storage of materials General safety: • On site • In workshops • Hazardous materials in the workplace e.g., solids, liquids and gasses HIV/Aids: Preventative measures Awareness of substance abuse: General safety: • Drugs • Alcohol	Application and uses of the following: • Concrete • Screed • Mortar • Coarse aggregates • Fine aggregates • Cement • Lime • Water Timber: Hard wood, soft wood and board products: • Saligna • Meranti • SA pine • Shutter board • Plywood • Block board • Tempered and standard Masonite (hard board) 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 Alloys: • Brass • Bronze Glass: Properties and uses of: • Clear sheet glass • Translucent glass • Safety glass Synthetic materials: • Thermoplastics • Thermosetting plastics • Polythene • Polypropylene • Polyvinyl chloride Introduction to the PAT (Phase 1 and Part 1 of Phase 2)	MATERIALS (specific) Seasoning of timber: • Definition of seasoning of timber • Description of artificial and natural methods of seasoning • Advantages and disadvantages of artificial and natural methods of seasoning • Reasons • Advantages of seasoning timber Sketches to show conversion of logs into timber using the following methods: • Tangential sawing • Economical • Quarter saw Application and uses of the following timbers: • Hard wood • Beech • Oak • Yellowwood	Identification, proper use and care of the following: Basic site equipment: • Round shovel • Wheelbarrow • Square shovel • Spade • Pick • Dumpy level Hand tools: Brick cutting tools: • Comb hammer • Club hammer • Cold chisel • Bolster • Brick hammer Plastering tools: • Float • Plastering trowel • Hand hawk • Straight edge • Block brush • Corner trowels • Nose trowels • Spirit level Woodworking tools: • Roof square • Rip saw • Cross cut saw • Claw hammer • Crowbar/Claw bar • Mitre try square • Combination square • Sliding bevel • Cutting gauge • Smooth, jack and trying plane • Wood rasp • Cross pein hammer • Screwdrivers (flat and Phillips blades) Plumbing tools: • Universal pliers • Water pump pliers • Soldering iron	Identification, proper use and care of the following: Basic site equipment: • Round shovel • Wheelbarrow • Square shovel • Spade • Pick • Dumpy level Hand tools: Brick cutting tools: • Comb hammer • Club hammer • Cold chisel • Bolster • Brick hammer Plastering tools: • Float • Plastering trowel • Hand hawk • Straight edge • Block brush • Corner trowels • Nose trowels • Spirit level Woodworking tools: • Roof square • Rip saw • Cross cut saw • Claw hammer • Crowbar/Claw bar • Mitre try square • Combination square • Sliding bevel • Cutting gauge • Smooth, jack and trying plane • Wood rasp • Cross pein hammer • Screwdrivers (flat and Phillips blades) Plumbing tools: • Universal pliers • Water pump pliers • Soldering iron	Identification, proper use and care of the following: Basic site equipment: • Round shovel • Wheelbarrow • Square shovel • Spade • Pick • Dumpy level Hand tools: Brick cutting tools: • Comb hammer • Club hammer • Cold chisel • Bolster • Brick hammer Plastering tools: • Float • Plastering trowel • Hand hawk • Straight edge • Block brush • Corner trowels • Nose trowels • Spirit level Woodworking tools: • Roof square • Rip saw • Cross cut saw • Claw hammer • Crowbar/Claw bar • Mitre try square • Combination square • Sliding bevel • Cutting gauge • Smooth, jack and trying plane • Wood rasp • Cross pein hammer • Screwdrivers (flat and Phillips blades) Plumbing tools: • Universal pliers • Water pump pliers • Soldering iron • Basin wrench Power tools:	Make advanced drawings by applying various scales: • Instrument drawings (related to building industry) • Orthographic projection with sections • Different elevations of a building • Vertical sections indicating labelling and measurements in accordance with the SANS for building drawings • Isometric views applicable to construction Freehand sketches relevant to the super structure of a building Basic computer-aided drawings Interpretation of drawings: • Site plan, floor plan and elevation of a basic single storey dwelling • Basic drawing symbols relating to the built environment in accordance with the SANS for building drawings	Make advanced drawings by applying various scales: • Instrument drawings (related to building industry) • Orthographic projection with sections • Different elevations of a building • Vertical sections indicating labelling and measurements in accordance with the SANS for building drawings • Isometric views applicable to construction Freehand sketches relevant to the super structure of a building Basic computer-aided drawings Interpretation of drawings: • Site plan, floor plan and elevation of a basic single storey dwelling Basic drawing symbols relating to the built environment in accordance with the SANS for building drawings		***School holiday***

TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
					• Basin wrench Power tools: • Electric drill • Bench grinder • Power screwdriver • Angle grinder • Portable circular saw Construction machinery: • Generator (electricity supply) • Concrete mixer • Plate compactor • Rammer Identification of parts, accessories and uses of the following woodworking machines: • Table saw • Band saw • Thicknesser/surface planer • Spindle moulder • Radial arm saw • Drill press • Combination belt and disc sander • Lathe Identification of parts and uses of the following portable woodworking machines: • Jig saw • Belt sander • Orbital sander • Router • Electric plane	• Basin wrench Power tools: • Electric drill • Bench grinder • Power screwdriver • Angle grinder • Portable circular saw Construction machinery: • Generator (electricity supply) • Concrete mixer • Plate compactor • Rammer Identification of parts, accessories and uses of the following woodworking machines: • Table saw • Band saw • Thicknesser/surface planer • Spindle moulder • Radial arm saw • Drill press • Combination belt and disc sander • Lathe Identification of parts and uses of the following portable woodworking machines: • Jig saw • Belt sander • Orbital sander • Router • Electric plane	• Electric drill • Bench grinder • Power screwdriver • Angle grinder • Portable circular saw Construction machinery: • Generator (electricity supply) • Concrete mixer • Plate compactor • Rammer Identification of parts, accessories and uses of the following woodworking machines: • Table saw • Band saw • Thicknesser/ surface planer • Spindle moulder • Radial arm saw • Drill press • Combination belt and disc sander • Lathe Identification of parts and uses of the following portable woodworking machines: • Jig saw • Belt sander • Orbital sander • Router • Electric plane				
REQUISITE PRE-KNOWLEDGE	Requirements of the OHS Act pertaining to: Personal safety, general safety, safety and health aspects associated with storage of materials, HIV/Aids	Basic properties of materials and ingredients of: Concrete, screed, mortar, timber, bricks, blocks, metals, synthetic	Basic properties of materials and ingredients of: Concrete, screed, mortar, timber, bricks, blocks, metals, adhesives	Manufacturing processes of clay bricks, face, semi-face, stock, cement bricks	Description and sketches of the following timber defects: • Heart shake, cup shake, star shake, waney edges and knots	Description and sketches of the following timber defects: • Heart shake, cup shake, star shake, waney edges and knots	Identification and proper use of the following: Basic site equipment: Bricklaying tools: Setting out tools	Pre-knowledge of advanced drawings by applying various scales Freehand sketches relevant to the super structure of a building Basic computer-aided drawings Interpretation of drawings: Site plan, floor plan	Pre-knowledge of advanced drawings by applying various scales Freehand sketches relevant to the super structure of a building Basic computer-aided drawings Interpretation of drawings: Site plan, floor plan		

TERM 1		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
RESOURCES (OTHER THAN TEXTBOOK) **TO ENHANCE LEARNING**		Practical work can be done to expose learners to the real-life situation. YouTube, videos, etc. Learners can do simulations of First Aid as explained in the textbook.		Materials as indicated in the content	Materials as indicated in the content Wall charts, videos on materials, etc.		Videos, YouTube, PowerPoint presentations, data projector, interactive whiteboard, etc. Materials as indicated in the content		Instrument drawings (related to building industry) Orthographic projection with sections Different elevations of a building Vertical sections indicating labelling and measurements in accordance with the SANS for building drawings Isometric views applicable to construction			
ASSESSMENT	**INFORMAL ASSESSMENT:** REMEDIATION	Informal class test Work sheets Assignments	Informal class test Work sheets Assignments	Do practical work to indicate the different materials	Informal class test Work sheets Assignments		Informal class test Work sheets Assignments		Informal class test Work sheets Assignments			
	SBA FORMAL ASSESSMENT	Assignment PAT- Phase 1 and Part 1 of Phase 2 **Learners should be taught and be able to understand and apply principles and concepts of each topic and should not be limited to specific specifications in the CAPS**										

2023/24 ANNUAL TEACHING PLANS: WOODWORKING: GRADE 11 (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 TOPICS	**GRAPHICS AS MEANS OF COMMUNICATION (GENERIC)**	**GRAPHICS AS MEANS OF COMMUNICATION (SPECIFIC)**	**QUANTITIES (SPECIFIC AND GENERIC)**	**QUANTITIES (SPECIFIC AND GENERIC)**	**QUANTITIES (SPECIFIC AND GENERIC)**	**JOINING (Generic) + (SPECIFIC)**	**JOINING (Generic) + (SPECIFIC)**	**Controlled test**			*School holiday*
TOPICS/CONCEPTS, SKILLS AND VALUES	Application and sketches of the profiles in good proportion of the following mouldings: • Different types of skirtings • Architraves • Dado rails • Quadrant • Scotia • Cornice • Rebate • Planted mould • Stuck mould • Ovolo mould Scale drawings of the following: • Solid core flush panel door • Vertical section through the bottom rail of a casement and the sill with the glass in position A horizontal section through a part of a casement showing the vertical glazing bar, casement stile and pane in position	Application and sketches of the profiles in good proportion of the following mouldings: • Different types of skirtings • Architraves • Dado rails • Quadrant • Scotia • Cornice • Rebate • Planted mould • Stuck mould • Ovolo mould Scale drawings of the following: • Solid core flush panel door • Vertical section through the bottom rail of a casement and the sill with the glass in position A horizontal section through a part of a casement showing the vertical glazing bar, casement stile and pane in position	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 Calculation of the quantity of materials: Calculate the materials required to erect a ceiling for a room measuring 4.5 metres long and 3 metres wide. Include the cornice Calculate the length of skirting required for a room measuring 5 metres long and 3.5 metres wide with a door opening of 900 mm Develop a cutting list to manufacture a two-panel door with flat panels	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 Calculation of the quantity of materials: Calculate the materials required to erect a ceiling for a room measuring 4.5 metres long and 3 metres wide. Include the cornice Calculate the length of skirting required for a room measuring 5 metres long and 3.5 metres wide with a door opening of 900 mm Develop a cutting list to manufacture a two-panel door with flat panels	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 Calculation of the quantity of materials: Calculate the materials required to erect a ceiling for a room measuring 4.5 metres long and 3 metres wide. Include the cornice Calculate the length of skirting required for a room measuring 5 metres long and 3.5 metres wide with a door opening of 900 mm Develop a cutting list to manufacture a two-panel door with flat panels	Properties, use, precautions, and application of the following adhesives: • Contact glue • PVC adhesives • Silicone • PVA wood glue • Epoxy • Mastic sealant Methods of joining the following items: • Skirting to a wall • Architrave to a door frame • Door frame to a wall • Cornice to a ceiling • Cupboard to a wall • Shelf to a wall • Mirror to a wall and frame • Windowpane to a casement stile • Handles to doors Application, uses and drawings of the following woodworking joints (exploded and assembled views): • Mortice and tenon joint • Double mortice and tenon joint • Bare face tenon	Properties, use, precautions, and application of the following adhesives: • Contact glue • PVC adhesives • Silicone • PVA wood glue • Epoxy • Mastic sealant Methods of joining the following items: • Skirting to a wall • Architrave to a door frame • Door frame to a wall • Cornice to a ceiling • Cupboard to a wall • Shelf to a wall • Mirror to a wall and frame • Windowpane to a casement stile • Handles to doors Application, uses and drawings of the following woodworking joints (exploded and assembled views): • Mortice and tenon joint • Double mortice and tenon joint • Bare face tenon				
REQUISITE PRE-KNOWLEDGE	Pre-knowledge of mouldings Drawing skills as in grade 10 and in the first term		Bricks and block Mathematical skills Volumes of concrete Length and square metres	Bricks and block Mathematical skills Volumes of concrete Length and square metres	Bricks and block Mathematical skills Volumes of concrete Length and square metres	Identify and explain the uses of joining materials like screws, nails, lags, etc.	Identify and explain the uses of joining materials like screws, nails, lags, etc.	Pre-knowledge on wood and mouldings Drawing and sketching skills	Pre-knowledge on casements Drawings and sketching skills		

TERM 2		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
RESOURCES (OTHER THAN TEXTBOOK) **TO ENHANCE LEARNING**		Drawing equipment Equipment and materials needed for moulding		Materials as needed in the workshop Calculation of quantities for a simple structure up to floor level Volumes, areas, linear Measurements Calculation of area of foundation, volume of sand, volume of cement, volume of stones, volume of water and Quantities for a small building up to floor level	Materials as needed in the workshop Calculation of quantities for a simple structure up to floor level Volumes, areas, linear Measurements Calculation of area of foundation, volume of sand, volume of cement, volume of stones, volume of water and Quantities for a small building up to floor level	Materials as needed in the workshop Calculation of quantities for a simple structure up to floor level Volumes, areas, linear Measurements Calculation of area of foundation, volume of sand, volume of cement, volume of stones, volume of water and Quantities for a small building up to floor level	Materials needed as indicated above Internet, YouTube, smartphones	Materials needed as indicated above Internet, YouTube, smartphones	YouTube, wall charts, excavations material	YouTube, wall charts, equipment for e.g., drawings equipment, set squares, etc.		
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		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		
	SBA FORMAL ASSESSMENT	**Controlled test** **Learners should be taught and be able to understand and apply principles and concepts of each topic and should not be limited to specific specifications in the CAPS**										

2023/24 ANNUAL TEACHING PLANS: WOODWORKING: GRADE 11 (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 TOPICS		**CASEMENT (SPECIFIC)**	**CASEMENT (SPECIFIC)**	**DOORS (SPECIFIC)**	**DOORS (SPECIFIC)**	**WALL PANELLING AND CUPBOARDS (SPECIFIC)**	**CENTRING (SPECIFIC)**	**FORMWORK (SPECIFIC)**	**FORMWORK (SPECIFIC)**	**SHORING (SPECIFIC)**	**COMPLETION OF CONTROLLED TEST/PAT**	***School holiday***
TOPICS/CONCEPTS, SKILLS AND VALUES		Sketch of horizontal section through the mullion and adjacent casement stiles with glass and putty in position. Identification of parts and the drawing of the external elevation of a double casement with two horizontal glazing bars within a frame	Sketch of horizontal section through the mullion and adjacent casement stiles with glass and putty in position. Identification of parts and the drawing of the external elevation of a double casement with two horizontal glazing bars within a frame	External doors: Application, drawing of front elevations, horizontal and vertical sections and constructional details of the following doors: • One-panel door with flat panels • Two-panel door with flat panels with high and middle lock rail • Framed ledge, brace batten doors • Ledge braced batten door	External doors: Application, drawing of front elevations, horizontal and vertical sections and constructional details of the following doors: • One-panel door with flat panels • Two-panel door with flat panels with high and middle lock rail • Framed ledge, brace batten doors • Ledge braced batten door	Front elevation and vertical section showing methods of installing plywood as wall panelling, not exceeding 1 200mm high from the floor A horizontal section showing how the joint between two plywood panels are concealed A vertical section showing the rough grounds and the finish at the top of the panelling with a projecting moulded capping A vertical section showing the finish at the bottom of the panelling with a moulded skirting and quadrant Working drawings of a frame with two doors to form a built-in cupboard between two walls showing the following: • Front view with doors and frame Vertical cross-section showing construction	Sketches showing methods of construction and erection of centres for the following types of arches with spans not exceeding 900mm: • Flat arch Semi-circular arch	Definition of formwork and striking Materials used for formwork taking into consideration the following: • The treatment before and after casting concrete • Properties of a good formwork Drawing of vertical cross-section of the formwork and methods of erecting and supporting the following: • Lintels • Floor slab Drawing of horizontal cross-section of the formwork and methods of erecting and supporting the following: • Round column • Square column	Definition of formwork and striking Materials used for formwork taking into consideration the following: • The treatment before and after casting concrete • Properties of a good formwork Drawing of vertical cross-section of the formwork and methods of erecting and supporting the following: • Lintels • Floor slab Drawing of horizontal cross-section of the formwork and methods of erecting and supporting the following: • Round column • Square column	Definition of shoring Purpose of shoring Single line diagrams showing the components of the following shores for a three-storey building: • Raking shore • Flying shore		
REQUISITE PRE-KNOWLEDGE		Pre-knowledge of materials for wall panelling and cupboards	Pre-knowledge of arches and materials for the manufacturing of cantering	Pre-knowledge of external doors	Pre-knowledge of external doors	Pre-knowledge of materials for formwork Materials for formwork	Drawings of formwork Sketches of formwork Scale drawings – how to interpret drawings	Pre-knowledge of shoring	Pre-knowledge of different ironmongery	Drawing and sketching skills		
RESOURCES (OTHER THAN TEXTBOOK) **TO ENHANCE LEARNING**		YouTube, wall charts on foundations, etc.	YouTube, wall charts, work sheets, etc.	YouTube, wall charts	YouTube, wall charts	YouTube videos on formwork Construction detail of formwork	YouTube, wall charts, etc.	Materials, wall charts, YouTube, etc.	Materials, wall charts, YouTube, etc.	YouTube, wall charts		
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	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		
	SBA FORMAL ASSESSMENT	Controlled test PAT (Part 2 of phase 2 to be in progress) **Learners should be taught and be able to understand and apply principles and concepts of each topic and should not be limited to specific specifications in the CAPS**										

2023/24 ANNUAL TEACHING PLANS: WOODWORKING: GRADE 11 (TERM 4)

TERM 4		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
CAPS TOPICS		**IRONMONGERY (SPECIFIC)**	**IRONMONGERY (SPECIFIC)**	**SUSPENDED TIMBER FLOOR (SPECIFIC)**	**SUSPENDED TIMBER FLOOR (SPECIFIC)**	**CEILING (SPECIFIC)**	**STAIRCASE (SPECIFIC)**	**CONSOLIDATION, FINAL EXAM AND ASSESSMENT OF PAT**				***School holiday***
TOPICS/CONCEPTS, SKILLS AND VALUES		Identification and use of the following fittings: Hinges: • Butt hinge • Tee hinge • Piano hinge • Strap hinge • Sinkless hinge • Parliament hinge Bolts: • Flush bolt • Barrel bolt	Identification and use of the following fittings: Hinges: • Butt hinge • Tee hinge • Piano hinge • Strap hinge • Sinkless hinge • Parliament hinge Bolts: • Flush bolt • Barrel bolt	Draw to scale the plan of the layout of a room at ground floor with a suspended timber floor, showing the spacing of the floor joists and bearers and also part of the floorboards in one corner of the room Draw a neat sketch to illustrate the term 'secret nailing', as applied to the tongue and grooved floorboards	Draw to scale the plan of the layout of a room at ground floor with a suspended timber floor, showing the spacing of the floor joists and bearers and also part of the floorboards in one corner of the room Draw a neat sketch to illustrate the term 'secret nailing', as applied to the tongue and grooved floorboards	The layout of the brandering for a ceiling for a room 4.5 metres long and 3 metres wide. The spacing of the brandering must be shown and the ceiling boards depicted in broken lines	Definition of the following terms as used in a single flight staircase: • Rise • Riser • Tread/going • Apron • Baluster • Margin • Pitch board • Handrail • Landing • Storey rod • String					
REQUISITE PRE-KNOWLEDGE		Pre-knowledge on suspended timber floor Drawing and sketching skills	Pre-knowledge on suspended timber floor Drawing and sketching skills	Pre-knowledge on suspended timber floor Drawing and sketching skills	Pre-knowledge on ceiling Drawing and sketching skills	Pre-knowledge on staircases Drawing and sketching skills	Pre-knowledge on staircases Drawing and sketching skills					
RESOURCES (OTHER THAN TEXTBOOK) **TO ENHANCE LEARNING**		YouTube, wall charts Drawing equipment	YouTube, wall charts Drawing equipment	YouTube, wall charts Drawing equipment	YouTube, wall charts Drawing equipment	YouTube, wall charts Drawing equipment	YouTube, wall charts Drawing equipment					
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	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 AND PAT (FORMAL)	**Final examination** **Assessment of the PAT** **Learners should be taught and be able to understand and apply principles and concepts of each topic and should not be limited to specific specifications in the CAPS**										