

## 2023/24 ANNUAL TEACHING PLANS: WOODWORKING: 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	
<b>CAPS TOPICS</b>	<b>INTRODUCTION OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 (OHS)</b>			<b>Materials: (SPECIFIC AND GENERIC)</b>			<b>Equipment and tools (GENERIC AND SPECIFIC)</b>			<b>COMPLETION OF ASSIGNMENT/1<sup>ST</sup> PHASE OF PAT</b>	
<b>TOPICS /CONCEPTS, SKILLS AND VALUES</b>	<b>Requirements of the OHS Act pertaining to:</b> <b>Personal safety:</b> <ul style="list-style-type: none"> <li>• Clothing</li> <li>• Head protection</li> <li>• Eye and ear protection</li> <li>• Footwear</li> </ul> <b>General safety:</b> <ul style="list-style-type: none"> <li>• Hand tools</li> <li>• Power tools</li> <li>• Excavations</li> <li>• Safe site planning and organisation</li> <li>• Safe site working methods</li> <li>• Fire prevention and protection</li> <li>• Types of fires</li> <li>• Fire extinguishers for specific types of fires</li> <li>• Fire triangle (oxygen, heat and fuel)</li> <li>• Main causes of fire</li> </ul> <b>Safety and health aspects associated with storage of materials:</b> <ul style="list-style-type: none"> <li>• On site</li> <li>• In workshops</li> <li>• Hazardous materials in the workplace e.g., solids, liquids, gasses</li> </ul> HIV/Aids awareness <b>Awareness of substance abuse:</b> <ul style="list-style-type: none"> <li>• Drugs</li> <li>• Alcohol</li> </ul> Application and regulation of the OHS Act pertaining to: <ul style="list-style-type: none"> <li>• Personal safety</li> <li>• Safety signage in the workshop</li> <li>• Safety signage at workplace</li> </ul> Radioactive elements: <ul style="list-style-type: none"> <li>• Labelling</li> <li>• Storage</li> <li>• Transportation</li> <li>• Disposal</li> </ul> Introduction to PAT (Phase 1 and part 1 of Phase 2)			<b>Basic properties of materials of:</b> <ul style="list-style-type: none"> <li>• Concrete</li> <li>• Screed</li> <li>• Mortar</li> <li>• Coarse aggregates</li> <li>• Fine aggregates</li> <li>• Cement</li> <li>• Lime</li> <li>• Water</li> </ul> <b>Timber hardwood, softwood and board products:</b> <ul style="list-style-type: none"> <li>• Saligna</li> <li>• Meranti</li> <li>• SA pine</li> <li>• Shutter board</li> <li>• Plywood</li> <li>• Block board</li> <li>• Tempered and standard Masonite (hardboard)</li> </ul> <b>Bricks and blocks:</b> <ul style="list-style-type: none"> <li>• Clay and cement</li> </ul> <b>Metal:</b> <b>Ferrous metals:</b> <ul style="list-style-type: none"> <li>• Grey cast iron</li> <li>• Ductile cast iron</li> <li>• Wrought iron</li> <li>• Malleable iron</li> <li>• Low carbon steel</li> <li>• Stainless steel</li> </ul> <b>Non-ferrous metals:</b> <ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Bronze</li> <li>• Copper</li> <li>• Lead</li> <li>• Tin</li> <li>• Zinc</li> </ul> <b>Adhesives:</b> <ul style="list-style-type: none"> <li>• PVC adhesives</li> <li>• Silicone</li> <li>• Mastic sealants</li> </ul> <b>Synthetic materials:</b> <ul style="list-style-type: none"> <li>• Thermoplastics</li> <li>• Thermosetting plastics</li> <li>• Polythene</li> <li>• Polypropylene</li> <li>• Polyvinyl chloride</li> </ul>			<b>Identification and proper use of the following:</b> <b>Basic site equipment:</b> <ul style="list-style-type: none"> <li>• Round and square shovels</li> <li>• Spade</li> <li>• Pick</li> <li>• Wheelbarrow</li> <li>• Metal pegs</li> </ul> <b>Bricklaying tools:</b> <ul style="list-style-type: none"> <li>• Brick trowel</li> <li>• Line block/corner block</li> <li>• Gauge rod</li> <li>• Tingle</li> <li>• Pipe level</li> </ul> <b>Setting out tools:</b> <ul style="list-style-type: none"> <li>• Line and pins</li> <li>• Steel square</li> <li>• Steel tape measure</li> <li>• Folding rule (1 metre in length)</li> <li>• Wooden or steel pegs</li> <li>• Straight edge</li> <li>• Spirit level</li> </ul> <b>Jointing tools:</b> <ul style="list-style-type: none"> <li>• Long jointer</li> <li>• Short jointer</li> <li>• Pointing trowel</li> <li>• Mastic trowel</li> </ul> <b>Woodworking tools:</b> <ul style="list-style-type: none"> <li>• Wooden mallet</li> <li>• Try square</li> <li>• Marking gauge</li> <li>• Tenon saw</li> <li>• Mortise chisel</li> <li>• Files</li> </ul> <b>Plumbing tools:</b> <ul style="list-style-type: none"> <li>• Pipe vice</li> <li>• Hack saw</li> <li>• Pipe cutters (copper tube)</li> <li>• Reamers</li> <li>• Pipe wrenches (Stillson wrench)</li> <li>• Blow lamps</li> <li>• Plumb bob</li> <li>• Adjustable spanner or shifting spanner</li> </ul> <b>Identification of the following measuring and setting out tools:</b> <ul style="list-style-type: none"> <li>• Mortise gauge</li> </ul>				<b>School holiday</b>

TERM 1		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
					Sketch and labels of the cross-section of a tree trunk. Description and sketches of the following timber defects: <ul style="list-style-type: none"> <li>• Heart shake</li> <li>• Cup shake</li> <li>• Star shake</li> <li>• Waney edges</li> <li>• Knots</li> </ul>			<ul style="list-style-type: none"> <li>• Folding rule</li> </ul> <b>Cutting tools:</b> <ul style="list-style-type: none"> <li>• Panel saw</li> <li>• Cross cut saw</li> <li>• Firmer rectangular chisel</li> </ul> <b>Knocking tools:</b> <ul style="list-style-type: none"> <li>• Warrington (cross peen) hammer</li> </ul> <b>Files (rasps):</b> <ul style="list-style-type: none"> <li>• Round file</li> <li>• Half-round file</li> </ul>			
<b>REQUISITE PRE-KNOWLEDGE</b>		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 of the above materials		Knowledge on basic site equipment: Bricklaying tools Setting out tools Woodworking tools	
<b>RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING</b>		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. Wall charts, videos on materials, etc.		Videos, YouTube, PowerPoint presentations, data projector, interactive whiteboard, etc. Materials as indicated in the content		Equipment and tools as indicated in the content topic. Site visit can be arranged to explain practical work. Basic materials shown as sizes are important. Workshop can be visited to explain the parts of the machines		
<b>ASSESSMENT</b>	<b>INFORMAL ASSESSMENT: REMEDIATION</b>	Informal class test Work sheets Assignments			Informal class test Work sheets Assignments		Informal class test Work sheets Assignments		Informal class test Work sheets Assignments		PAT simulation assignments
	<b>SBA FORMAL ASSESSMENT</b>	Assignment PAT- Phase 1 and Part 1 of Phase 2 <b>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</b>									

2023/24 ANNUAL TEACHING PLANS: WOODWORKING: 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	School holiday
<b>CAPS TOPICS</b>		<b>GRAPHICS AS MEANS OF COMMUNICATION (GENERIC)</b>			<b>GRAPHICS AS MEANS OF COMMUNICATION (SPECIFIC)</b>			<b>QUANTITIES (GENERIC)</b>	Controlled test			
<b>TOPICS /CONCEPTS, SKILLS AND VALUES</b>		<p><b>Introduction to graphics as a means of communication:</b></p> <ul style="list-style-type: none"> <li>• Application of SANS 0143 building regulations in all drawings</li> <li>• Types of lines, dimensioning and labelling Code of Practice – SANS</li> <li>• Basic freehand sketching (related to building industry)</li> </ul> <p><b>Make basic drawings by applying various scales:</b></p> <ul style="list-style-type: none"> <li>• Orthographic projection</li> <li>• Isometric views applicable to construction</li> <li>• Instruments and instrument drawings</li> <li>• Floor plan only of a two-room rectangular building</li> <li>• Introduction to computer-aided drawings</li> </ul>			<p><b>Freehand sketching of the following workbench accessories:</b></p> <ul style="list-style-type: none"> <li>• Bench hook</li> <li>• Shooting board</li> <li>• Push stick</li> </ul> <p><b>Sketches in good proportion of the following:</b></p> <ul style="list-style-type: none"> <li>• Longitudinal half lap joint</li> <li>• Corner half lap joint</li> </ul> <p><b>Scale drawings of the following:</b></p> <ul style="list-style-type: none"> <li>• Vertical section through the frame head and top rail of a door</li> <li>• Cross-sectional views of a solid and laminated beam measuring 70mm thick and 225mm wide</li> </ul> <p><b>An isometric drawing of a timber wedge</b></p>			<p><b>Calculate the following:</b></p> <ul style="list-style-type: none"> <li>• Volume of concrete for a straight trench</li> <li>• Square metre of materials such as tiles and brick walls</li> <li>• Length of skirting and quarter round moulding</li> </ul>				
<b>REQUISITE PRE-KNOWLEDGE</b>		Learner's prior knowledge of communication in Technology Knowledge of scales, orthographic projection as done in Grade 9 Technology. Learner's prior knowledge of communication in Technology Drawing skills as in Grade 9 and in the first term			Knowledge of scale, orthographic drawings, floorplans and sketching is important Knowledge on wood, doors, beams, etc.			Basic mathematical skills required				
<b>RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING</b>		Drawing equipment Equipment and materials needed for mouldings			Wall charts needed as described in the content topic Drawing equipment. Videos can be shown to learners			Calculation of quantities for a simple structure up to floor level. Volumes, areas, linear				
<b>ASSESSMENT</b>	<b>INFORMAL ASSESSMENT: REMEDIATION</b>	Make use of materials and test learner's ability to draw or sketch a basic floorplan Complete drawings on worksheets. Visit a computer lab and expose learners to hardware			Testing – worksheets, informal test, etc. Quick sketches to enhance drawing techniques			Worksheets – identification and uses Practical work to enhance learning Tests. Drawings of a vertical section through a frame head				
	<b>SBA FORMAL ASSESSMENT</b>	Controlled test <b>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</b>										

2023/24 ANNUAL TEACHING PLANS: WOODWORKING: 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
<b>CAPS TOPICS</b>		<b>QUANTITIES (SPECIFIC)</b>			<b>JOINING (GENERIC)</b>		<b>JOINING (SPECIFIC)</b>		<b>CASEMENTS (SPECIFIC)</b>		<b>COMPLETION OF CONTROLLED TEST/PAT</b>
<b>TOPICS/CONCEPTS, SKILLS AND VALUES</b>		Calculation of materials and sundry items for a simple bathroom cabinet with framed door/s to house a mirror, glass or flat panel Cutting list for the following doors: <ul style="list-style-type: none"> <li>• One and two-panel doors with flat panels</li> <li>• Ledge batten door</li> </ul>			<b>Identify and explain the uses of:</b> <b>Screws:</b> <ul style="list-style-type: none"> <li>• Countersunk head</li> <li>• Round head</li> <li>• Raised head</li> <li>• Jetting screw</li> <li>• Drywall screw</li> <li>• Self-cutting bolt head screw</li> <li>• Drill tip bolt head screw</li> <li>• Coach screw</li> </ul> <b>Advantages of using screws over nails:</b> <b>Nails:</b> <ul style="list-style-type: none"> <li>• Round wire</li> <li>• Masonry</li> <li>• Clout nail</li> <li>• Steel cut nail</li> <li>• Oval nail</li> <li>• Panel pin</li> <li>• Clout nail</li> <li>• Brad nails</li> </ul> <b>Advantages of using nails over screws</b>		<b>Sketches and application of the following joints:</b> <ul style="list-style-type: none"> <li>• Tongue and groove</li> <li>• Finger joint</li> <li>• Butt</li> <li>• Dowel joint</li> </ul> <b>Properties, uses, precautions and applications of water-resistant adhesives for timber</b>		Sketches of vertical and horizontal sections through the following frame members of a casement: <ul style="list-style-type: none"> <li>• Frame head</li> <li>• Frame stile</li> <li>• Sill</li> </ul>		
<b>REQUISITE PRE-KNOWLEDGE</b>		Basic mathematical skills Pre-knowledge on calculations Knowledge on doors and panels			Materials for nails and screws		Sketches work Scale drawings – how to interpret drawings Knowledge on glues		Sketches work Scale drawings – how to interpret drawings		
<b>RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING</b>		The start of the term – questions and answers Work sheets with excavations from collapsing only Drawings and sketches can be made. Emphasis on sketching			YouTube, wall charts, work sheets, etc.		YouTube, wall charts, etc.		YouTube, wall charts, models of casements etc.		
<b>ASSESSMENT</b>	<b>INFORMAL ASSESSMENT: REMEDIATION</b>	Work sheets Class and homework activities Informal class tests			Work sheets Class and homework activities Informal class tests						
	<b>SBA FORMAL ASSESSMENT</b>	Controlled test PAT (Part 2 of phase 2 to be in progress) <b>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</b>									

School holiday

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

TERM 4		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	School holiday	
<b>CAPS TOPICS</b>		<b>CASEMENT (specific)</b>			<b>DOORS (specific)</b>								
<b>TOPICS /CONCEPTS, SKILLS AND VALUES</b>		Sketches of vertical and horizontal sections through the following members of a casement: <ul style="list-style-type: none"> <li>• Top rail</li> <li>• Stile</li> <li>• Bottom rail</li> <li>• Glazing bars</li> </ul> Identification of various members of an external elevation of a single casement within a frame with no glazing bar			<b>Internal doors:</b> Drawing of the front elevations, horizontal sections, application and constructional details of the following doors: <ul style="list-style-type: none"> <li>• Hollow core flush panel door</li> <li>• Solid laminated flush panel door</li> </ul> <b>The option of using alternate materials as panels for flush panels doors</b> <b>Methods of edging doors</b> <b>External doors:</b> Drawing of the external and internal elevations, horizontal sections, application and constructional details of a ledge batten door								
<b>REQUISITE PRE-KNOWLEDGE</b>		Pre-knowledge of casements	Pre-knowledge of casements	Pre-knowledge of casements	Pre-knowledge of doors	Pre-knowledge of doors	Pre-knowledge of doors						
<b>RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING</b>		Materials, wall charts, physical examples, YouTube, etc.	Materials, wall charts, physical examples, YouTube, etc.	Materials, wall charts, physical examples, YouTube, etc.	Materials, wall charts, physical examples, YouTube, etc.	Materials, wall charts, physical examples, YouTube, etc.	Materials, wall charts, physical examples, YouTube, etc.						
<b>ASSESSMENT</b>	<b>INFORMAL ASSESSMENT: REMEDIATION</b>	Work sheets Class and homework activities Informal class tests			Work sheets Class and homework activities Informal class tests								
	<b>SBA (FORMAL)</b>	<b>Final examination</b> <b>Assessment of the PAT</b> <b>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</b>											