

**SENIOR HIGH SCHOOL - TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK
TRAINING FOR INSTRUCTORS OF HOME ECONOMICS – HANDICRAFT (Leathercraft)**

SHOE CRAFTSMANSHIP

Course Description:

This course is designed for future instructors of SHS TVL Track specialising in Leathercraft to develop their knowledge, skills, and discipline in the shoe making industry. It covers the entire shoe making processes, materials, machineries, and tools used by the industry. It covers the core competencies for designing, manufacturing and product costing.

The course will be taught through a series of practical demonstrations and hands-on workshops and cover information on suppliers and tools as well as how to effectively train SHS students in the shoemaking industry. At the end of the course student-instructors will leave with several pairs of shoes and a comprehensive set of reference notes and supporting patterns for other shoes.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	HOURS
	The learner demonstrates an understanding of core concepts and theories in Shoe Craftsmanship.	The learner independently demonstrates core competencies and able to instruct other learners on the core concepts and theories in Shoe Craftsmanship.		1314
LESSON 1. BASIC KNOWLEDGE FOR DESIGN AND PATTERN MAKING				
1.1 FOOT 1.1.1 Foot anatomy applied to footwear design and pattern making 1.1.2. Foot bio-mechanics applied to footwear design and pattern making.			1. Applies foot anatomy principles in designing and pattern-making. 2. Applies foot biomechanics in footwear design and pattern making	1.0
1.2 MATERIALS USED FOR FOOTWEAR 1.2.1. Identifying/ Classifying footwear materials (Leather and non-leather) 1.2.2. Performance of materials for footwear, physical, mechanical and chemical properties. 1.2.3 Technological and usability characteristics of materials.			1. Formulates a criteria for classifying footwear materials. 2. Explains the physical, mechanical, chemical properties of materials, technological and usability characteristics.	2.0

<p>1.3 FOOTWEAR STRUCTURE AND FUNCTION</p> <p>1.3.1 Standard footwear types 1.3.2 Components of a footwear 1.3.3 Constructive types 1.3.4 Description of the main functions of footwear 1.3.4.1 Types of footwear 1.3.4.2 Footwear features</p>			<ol style="list-style-type: none"> 1. Identifies different types of footwear. 2. Explains the different types of components their materials and function. 3. Explains the constructive types of the components 4. Explains the main functions of foot wear. 5. Explains the types of footwear and their features. 	1.0
<p>1.4 SHOE LASTS USED BY THE INDUSTRY</p> <p>1.4.1 Shoe last anatomy 1.4.2 Types of shoe last and their build up components 1.4.3 Required shoe lasts for different types of shoe constructions</p>			<ol style="list-style-type: none"> 1. Explains constructive parts of the last. 2. Demonstrates knowledge on shoe last types and build up components. 3. Demonstrates knowledge on selecting the last requirements for different types of shoe construction. 	2.0
<p>1.5 FOOTWEAR TECHNOLOGY</p> <p>1.5.1 Manufacturing Process 1.5.2 Shoe Construction methods</p>			<ol style="list-style-type: none"> 1. Explains the different processes of shoe manufacturing. 2. Explains the different methods of shoe construction. 	4.0
<p>1.6 MEASURING THE FOOT (FOOT ANTHROPOMETRICS)</p> <p>1.6.1 Marking the anatomical points of the foot with the active role in biometrics 1.6.2 Anthropometrical parameters of the foot</p>			<ol style="list-style-type: none"> 1. Applies knowledge in taking foot measurements. 	2.0
<p>1.7 MEASUREMENT SYSTEMS</p> <p>1.7.1 Transposing foot measurements to last measurements 1.7.2 Footwear Sizing 1.7.3 Effects of poor fitting shoes.</p>			<ol style="list-style-type: none"> 1. Demonstrates knowledge in transposing foot measurements to shoe lasts. 2. Explains the different sizing systems used in the industry and their differences. 3. Explains the effects of poor-fitting shoes. 	2.0

<p>1.8 TECHNOLOGICAL ALLOWANCES FOR PATTERN MAKING</p> <p>1.8.1 Setting up of allowance for different edge treatments 1.8.2 Setting up of allowance for different types of seams 1.8.3 Setting up of lasting allowances based on lasting technology</p>			<p>1. Demonstrates knowledge in setting up allowances for different edge treatments. 2. Demonstrates knowledge in setting up allowances for different seam types. 3. Demonstrates knowledge in setting up lasting allowances based on lasting technology.</p>	1.0
<p>1.9 TOOLS FOR PATTERN MAKING</p> <p>1.9.1 Different tools and their uses in Patternmaking</p> <p>1.9.1.1 Mechanical pencil 1.9.1.2 Protractor 1.9.1.3 Divider 1.9.1.4 Flexible ruler 1.9.1.5 Tape measure 1.9.1.6 Copying wheel 1.9.1.7 Curved scissors 1.9.1.8 Revolving punch pliers</p>			<p>1. Demonstrates knowledge in selecting essential tools for patternmaking.</p>	1.0
LESSON 2: BASIC PATTERN MAKING FOR CHILDREN'S, LADIES', AND MEN'S SHOES (DERBY, OXFORD, PUMPS, LOAFERS)				
<p>2. BASIC PATTERN MAKING</p> <p>2.1 Producing the mean form pattern (Tape Method) 2.2 Method in Producing the design standard pattern based on style and construction 2.3 Method in making the working patterns 2.4 Instruction in creating the pattern envelope</p>			<p>1. Creates an accurate mean form according to product requirements 2. Demonstrates knowledge and skills in creating the design standard pattern. 3. Demonstrates knowledge in producing the sectionalized patterns.</p>	175
LESSON 3: SHOE INDUSTRY PRACTICES AND PRINCIPLES				
<p>3. FOOTWEAR INDUSTRY PRODUCTION PRACTICES AND PRINCIPLES</p>			<p>1. Demonstrates quality control procedures and identifies quality issues. 2. Practices procedures for maintaining their work area, tools and machines</p>	

<p>3.1 Implementing Quality Standards 3.2 Standard procedures in maintaining work area, tools, and machineries 3.3 Standard operating procedures in operating and setting up shoe machineries 3.4 Procedures on using and maintaining hand and power tools</p>			<p>and machineries 3.Follows standard procedures in operating and setting up machines based on manufacturers specifications. 4.Follows standard procedures in using hand tools and power tools based on factory specifications 5.Follows health and safety procedures at all times when working with tools and machinery.</p>	4.0
LESSON 4: CUTTING				
<p>4. CUTTING 4.1 Different Cutting methods 4.2 Pattern laying methods /Inter locking 4.3 Machines & Tools</p>			<p>1.Demonstrates different methods in cutting. 2.Applies pattern laying method in various types of materials. 3.Demonstrates knowledge in uses of different types of cutting machines.</p>	70
LESSON 5. CLOSING (UPPER ASSEMBLY)				
<p>5. CLOSING (UPPER ASSEMBLY) 5.1 Closing process 5.1.1 Handling 5.2 Preparation 5.2.1 Preparation methods and techniques 5.2.2 Staining and marking 5.3 Pre-Fitting methods and techniques 5.4 Skiving 5.4.1 Skiving methods 5.4.2 Different skive types 5.4.3 Setting up of machines depending on skive requirements 5.4.4 Machine and Tools for Skiving 5.5 Stitching 5.5.1 Types of sewing Machines and their uses 5.5.2 Seam types 5.5.3 Binding types 5.5.4 Needle types</p>			<p>1.Demonstrates correct handling of cut components and closed uppers. 2.Demonstrates methods and techniques in preparation and pre fitting operations. 3.Explains different skiving methods 4.Applies skiving methods on different skive requirements 5.Demonstrates familiarization on the tools and the types of machine used for skiving, 6.Demonstrates familiarization on the tools and the types of machine used for stitching. 7.Stitches samples of the different seam types. 8.Stitches samples of the different binding methods.</p>	280

LESSON 6. INSOLE AND COMPONENT MAKING				
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6.1 Insole components/ Materials 6.2 Assembly method 6.2.1 Shank placement 6.2.2 Heel bevel 6.2.3 Insole forming 6.3 Quality Issues			1.Explains the components and materials used for constructing the insole. 2.Applies insole assembly method in constructing the insole. 3.Explains the different quality issues that affect the insoles.	80.0
LESSON 7. HAND LASTING				
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7.1 Lasting process 7.1.1 Preparation 7.1.2 Insole tacking, attaché toe puff and stiffener 7.1.3 Toe Last 7.1.4 Seat lasting 7.1.5 Side lasting 7.1.6 Pounding 7.1.7 Roughing 7.2 Machines and Tools 7.3 Components 7.3 Lasting methods based on construction 7.4 Handling 7.5 Quality Issues			1.Identifies the procedures and principles of lasting. 2.Applies the method and procedures in carrying out the preparation stage. 3.Applies the method in carrying out the lasting process. 4.Identifies the different types of tools and machines used in lasting. 5.Identifies the different components used in lasting 6.Demonstrates knowledge in the different types of components used in lasting. 7.Demonstrates correct handling of lasted shoes. 8.Explains the different quality issues in lasting.	140
LESSON 8. BOTTOMING				
8. BOTTOMING				
8.1 Bottoming process/methods based on construction type 8.1.1 Pre bonding 8.1.2 Bonding 8.1.3 Sole attaché 8.1.4 Sole press 8.1.5 Sole stitching			1.Explains the different methods of sole attaching based on construction type. 2.Applies pre bonding procedures. 3.Applies bonding procedures 4.Applies method in attaching sole. 5.Applies sole press procedures 6.Performs heel attaching. 7.Performs heel scouring.	140.0

8.1.6 Heel attaching 8.1.7 Heel scouring 8.1.8 Edge trimming 8.2 Materials and components 8.2.1 Sole types 8.2.2 Heel types 8.2.3 Adhesives 8.3 Machines and tools 8.4 Quality issues			8.Performs edge trimming. 9.Explains the different sole types and their material composition. 10.Demonstrates the different heel types used. 11.Identifies the different types of adhesives and application procedures for various bottom materials.	140.0
LESSON 9. FINISHING				
9. FINISHING 9.1 Finishing methods and processes 9.2 Finishing chemicals 9.3 Machinery & Tools used for finishing			1.Applies methods and procedures in performing finishing operations based on product requirements. 2.Explains the different types of chemicals applied in shoe finishing. 3.Identifies and explains the functions of the different types of machines used for shoe finishing.	70.0
LESSON 10. ADVANCED SKILLS				
10. ADVANCED SKILLS IN SHOE CRAFTSMANSHIP 10.1 Advanced pattern making 10.1.1 True Moccasin 10.1.2 Boots 10.1.3 Asymmetric 10.1.4 California process 10.2 Advanced shoe Constructions 10.2.1 Good year welt construction 10.2.2 Last sewn moccasin 10.2.3 Pattern grading			1.Creates a true moccasin pattern 2.Creates a boot pattern 3.Creates a California process pattern. 4.Creates a shoe using advanced shoe construction methods.	275
LESSON 11. SPECIALIZED SKILLS				
11. SPECIALIZED SKILLS IN SHOE CRAFTSMANSHIP 11.1 Digital design and pattern making (CAD)			1. Designs and creates the shoe pattern using CAD.	60
LESSON 12. COSTING AND PRICING				

<p>12. COSTING AND PRICING</p> <p>10.1 Measuring Patterns (parallelogram method)</p> <p>10.2 Computing grindery costs (Adhesives, Solvents, threads, fasteners)</p> <p>10.3 Classify Direct and Indirect costs</p> <p> 10.3.1 Materials</p> <p> 10.3.2 Labor</p> <p>10.4 Computing direct labor cost (time and motion study)</p>			<ol style="list-style-type: none"> 1. Applies method in measuring working patterns. 2. Computes grindery costs used in making the shoe. 3. Classifies direct and indirect cost for labor and materials 4. Computes labor cost. 	<p>4.0</p>
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	Hours	Days	Weeks	
	1214	173	25	