350: LEATHER TRADES

Examination Structure

This trade consists of THREE OPTIONS:

- 1. LEATHER TANNING OPTION
- 2. LEATHER GOODS MANUFACTURE
- 3. FOOTWEAR MANUFACTURE

The Trade Related subject is Building/Engineering Drawing

The General Education subjects are: English, Mathematics, Biology, Chemistry, Information and Communication Technology (ICT) and English Literature

EACH OPTION OF LEATHER TRADES comprises of the following modules:

351: LEATHER TANNING OPTION

i. Introduction to Hides and Skins		 CLM 11
ii. Principles of Leather Manufacture		 CLM 12
iii. Light and Heavy Leather Production		 CLM 13
iv. Leather Dyeing and Finishing		CLM 14
352: LEATHER GOODS MANUFACT	URE	

i.	Introductio	n to Leather	Goods	Manufa	acture	••	CLG 11
ii	Pattern Pre	paration					CLG 12
iii	Cutting and	Skiving	🔨				CLG 13
iv.	Sewing						CLG 14
v. 1	Making and	Finishing					CLG 15

353: FOOTWEAR MANUFACTURE

i.	Stitching			 	 CFM 13
ii.	Footwear Bottom	Preparat	tion	 	 CFM 14
iii.	Shoe Lasting			 	 CFM 15
iv.	Sole Attaching			 	 CFM 16
v.	Footwear Finishin	g		 	 CFM 17

EXAMINATION SCHEME

Each OPTION above, shall be examined in TWO papers:

ESSAY and PRACTICAL. This means there will be a PAPER 1 consisting of 40 objective and Five Essay question to answer Four in Two Hours Ten Minutes time.PAPER II shall be the PRACTICAL.

S/No	Topic/Objectives	Contents	Activities/Remarks
1.0	Hides and Skin	1. Sources of hide and skin.	1. Practical
	1. List sources of hides	2. Cross-section of hide	slaughtering of
	and skin and explain	and skin.	animal involving
	their differences.	3. Differences between	various tools.
	2. Explain the	hide and skin e.g. in	
	equipment used in	size, area, weight, etc.	
	slaughter slabs and	4. Care of animals prior to	
	abattoir and explain	slaughter.	
	their uses.	5. Value of hide and skin.	
		6. Damages on hides and	
		skin during slaughter,	
		flaying etc.	
2.0	Tools and Equipment for	1. Tools and equipment.	1. Emphasis should
	Slaughtering	2. Uses of tools and	be on different
	1. Identify tools and	equipment.	types of
	equipment used in	3. Maintenance of tools and	equipment.
	slaughter slabs and	equipment.	
	abattoir and explain	4. Slaughtering of animals.	
	their uses.	0,2	
3.0	Trade Terms in Hides	1. Common trade terms e.g.	
	and Skin	fell-mongering, hinny,	
	1. Explain the meaning of	kip, calf, etc.	
	common trade terms	2. Regulations for hides and	
	and hides and skin	skin.	
	regulations.		
4.0	Flaying, curing, &	1. Curing and flaying using	I. Practical
	Storage	flaying knives and	involving various
	1. Explain different	machines.	methods of
	methods of curing	2. Curing methods e.g.	preparation,
	used in Nigeria and	pickling, flinting, etc.	curing and
	identify common	3. Curing with salt e.g. dry	arsenic solutions.
	commercial curing	and wet salting.	
	salts.	4. Types of common	
	2. Explain the theory of	curing salts e.g. fine salt,	
	salt penetration,	granular salt, etc.	
	importance and uses of	5. Salt penetration.	
	arsenic solution.	6. Importance and uses of	
	5. Explain the use of	arsenic solutions.	
	insecucides and	/. Preparation of arsenic	
	damages during	Solution.	
	storage.	 Uses(s) of insecticides 	

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S/No	Topic/Objectives	Contents	Activities/Remarks
5.0	 Grading of Hides and Skin Differentiate between grading and selection in hides and skin. Explain commercial classification, folding and banding of hides and skin. 	 e.g. liquid insecticide, aerosol, etc. 9. Types of damages 1. Grading and selection in hides and skins. 2. Application of grading and selection. 3. Classification of hides and skin. 4. Folding and bunding. 	 Emphasis should be on folding, bunding an classification of hides and skin.

S/N	Topic/Objectives	Contents	Activities/Remarks
1.0	Water for Tanning	1. Sources of water.	1. Practical
	1. Identify the available	2. Importance of water.	involving
	sources of water	3. The effects of water.	removal of
	supply, state the	4. Removal of water	water hardness
	importance and	hardness.	
	explain the effect of		
	hard water on		
	tanning.		
2.0	Tannery Dyes, Finishes	1 Vegetable tanning	1. Practical
	And Other Chemicals	2. Preparation of chrome	involving the
	1. Name major	liquors.	preparation of
	vegetable tanning	3. Principles of basicity.	tannery dyes,
	materials used in	4. Uses of oils, fats waxes,	finishes, chrome
	Nigeria and describe	fat liquors and their	liquors and
	their sources.	merits.	other chemicals.
	2. Explain the basic	5. Types of dyes and	2. Precautions in
	principles of basicity	finishes.	handling alkalis,
	of chrome liquors, the	6. Sources of dyes and	salts, finishes
	use and merits of oils,	finishes.	and other
	fats, waxes, and fat	7. Factors governing the	chemicals.
	liquors in tanning.	choice of dyes and	
	3. list types of dyes and	finishes.	
	finishes, sources and	8. The principles of fixation.	
	explain the principles	9. Types and uses of	
	of fixation of dyes 🛛 🧹	indicators, PH papers,	
	and finishes.	scales and buffer	
	4. State the safety	solutions in tanning.	
	precautions to be	10. Precautions in using	
	observed in the use of	acids, alkalis, salts and	
	acids, alkalis, salts,	finishes.	
	finishes, etc in the		
	leather industry.		
3.0	Tannery Machines and	1. Types of Tanning	1. Emphasis on the
	Equipment	equipment and machines.	care and uses of
	1. List and identify	2. Measurement of volumes,	tannery
	tanning equipment	capacity of pit, drums and	machines and
	and machines	paddles.	equipment.
	according to the	3. Precautions for machines	
	production process	and equipment.	
	and state safety		
	precautions to be		
	observed in their		
	usage.		

PRINCIPLES OF LEATHER MANUFACTURE

S/N	Topic/Objectives	Contents	Activities/Remarks
4.0	 Outline of Leather Manufacture 1. Outline the process of leather manufacture, different departments in the tanning industry and the manufacturing process of different types of leather uppers, soles, suede, etc. 2. Explain the operation of each of the departments and the different drying methods in leather manufacture. 	 Process of leather manufacture. Types of departments in tanning e.g. beam yard, tan yard, etc. Operation and functions of leather manufacture departments. Dry methods in leather manufacture e.g. vacuum drying. Manufacturing process of leather e.g. uppers, upholstery, suede, etc. 	 Emphasis on process and methods of leather manufacture.
5.0	Quality Control in leather Manufacture 1. Explain different quality control measures in the various processes of leather manufacture and the physical and chemical tests involved in the quality control of finished leather.	 Quality control measures. Physical and chemical tests in quality control. Carrying out physical and chemical tests in quality control. Similarities and differences in leather and leather substitutes. 	Emphasis on: 1. Quality control measures The differences and similarities in leather and leather substitutes.

S/N	Topic/Objectives	Contents	Activities/Remarks
1.0	 Beam Yard Processes Explain the processes in a beam yard. Select and weigh raw materials from light and heavy hides. Soak raw hides in pits using given recipes, lime and unhair using different methods e.g. lime/sulfide system. Delime using various deliming agents, drench, and degrease using various methods. 	 Processes in beam yard. Selection of raw materials. Weighing of raw materials. Soaking raw hides in pits. Liming and unhairing. Rounding for heavy leather manufacture. Deliming using various agents e.g. (NH₄)₂SO₄ Bating and scudding. Drenching. Degreasing. Picking. 	1. Practical works involving beam yard processes, selection, weighing, soaking lining etc.
2.0	 Leather Tanning Interpret and asses already formulated recipes. Tan to produce light leathers and specific tan parts of rounded hides to produce specific types of heavy leather e.g. for outer soles. Apply post tanning processes and incorporate fats and fat-liquors into light leathers. 	 Interpret and assessing of formulated recipes. Tanning to produce light leather using calf skins, sheep, goat, etc. Tanning for specific leather. Tanning of rounded parts of hides. Application of post tanning processes. Incorporation fat and fat- liquors. Drying of light leather. 	1. Practical work involving the various processes.
1.0	 Application of Dye Stuff, Pigments and Finishes. 1. Dye various types of leather. 2. Apply dyeing processing to leather 	 Post tanning processes. Dye solution and finishing dopes. Dyeing processes using various dyes e.g. acid dyes, drum dyeing etc. Dyeing of types of leather 	1. Practical work involving dye stuff, pigments and finishes.

S/N	Topic/Objectives	Contents	Activities/Remarks
	using various dyes, pigments, using prepared dopes and apply post tanning processes before dyeing and finishing of leather. 3. Glaze or wet plate by machine.	e.g. suede leather.5. Application of Pigments.6. Spraying of top finish.7. Glazing or wetting of plate.	
2.0	 Characteristics of Finished Leather Classify leather as soft, hard and list leather subset tubes explaining their advantages and disadvantages. List and explain the properties/used of different types of fibre boards and adhesives used in leather goods manufacture. Explain the advantages and disadvantages and disadvantages of using leather in making of shoes and other leather goods, and the principles of adhesion. 	 Classification of leather. Leather substitutes, advantages and disadvantages. Kinds of goods manufactured from leather. Types of fibre boards and their properties. Types of yarns, threads and uses. Advantages and disadvantages of leather. (a) Materials for re- enforcement. (b) Characteristics and uses. a) Principles of adhesion. b) Types of adhesives. 	 Trainees are expected to know the differences and characteristics of kinds of goods manufactured from leather and leather substitute. Trainees should be able to identify yarns, threads and their uses, types of adhesives, etc.

S/No	Topic/Objectives	Contents	Activities/Remarks
1.0	History and	1. Origin of leather	
	Development of	2. Sources of leather	
	leather	3. Process of leather	
	1. List the origin,	production.	
	sources, types of	4. Types of leather and their	
	leather used in the	characteristics.	
	industry and explain		
	their characteristics		
	2 Outline the process		
	of leather		
	production with		
	emphasis on lanning		
	emphasis on failing.		
2.0	Materials used in	1 Structure of hide and	1 Trainee should be
2.0	Leather Coods	skin	able to identify
	Monufacturo	2 Leather substitutes	various material
	1 Explain the	2. Classification of leather	various material
	1. Explain the	1 Types of fibre boards and	goods
	and skin the	4. Types of hore obards and	goous.
	and skin, the	5 Types of yerns threads	
	uses of plastics in	5. Types of yarns, threads	
	the leather goods	6 Structure of fabrics and	
	in deasters	o. Structure of fabrics and	
	lindusury.	Characteristics and uses	
	2. List leather	7. Characteristics and uses	
	substitutes	of plastics.	
	enumerating their	8. Materials for	
	advantages and	Courses another and	
	disadvantages	9. Sources, properties and	
	different type of	uses of dressing and	
	yarns and threads	10 Temps of a discissor	
	used in leather	10. Types of adhesives.	
	goods manufacture	12. Selection of adhesion.	
	explaining their	12. Selection of adnesive.	
	properties, and	15. Application and effects of	
	types of adhesives	adnesive.	
	used in the leather	14. Cleaning materials.	
	works industry.	15. Sources of cleaning	
	3. Explain the	materials, properties,	
	sources, properties	actions and uses.	
	and uses of	16. Types of dyes and	
	dressing and	pigments	
	tinishing materials.	17. Origin and composition	
	4. Explain the	of dyes and pigments.	

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S/No	Topic/Objectives	Contents	Activities/Remarks
	principles of		
	adhesion, the		
	criteria for		
	selection of a		
	particular types of		
	adhesive for a		
	particular purpose		
	and the application		
	and effects of		
	adhesives.		
	5. Define cleaning		
	the sources		
	nroperties actions		
	and state their uses		
	6 List different types		
	of dues and	*	
	pigments used in		•
	leather work and		
	explain the origin		
	and composition.		

S/No.	Topic/Objectives	Comments	Activities/Remarks
1.0	Instruments and	1. Instruments and materials in	1. Identification of
	Materials used in	pattern preparation e.g. ruler or	instruments and
	Pattern Preparation	tape, pencil knife, etc.	materials used in
	1. Identify	2. Uses of instruments and	pattern
	instruments and	materials.	preparation.
	materials used in	3. Storage and care of instrument.	
	pattern preparation,	4. Precautions in using instrument.	
	describing their		
	uses.		
	2. Explain the safety		
	precautions in the		
	use of the		
	instruments.		
2.0	Pattern Production	1. Sketching of item or product.	1. Measurement,
	1. Sketch an item for	2. Measurement of an item.	free hand
	manufacture	3. Patten drawing to scale.	sketching and
	inserting the	4. Sequence of pattern cutting e.g.	pattern drawing
	measurements of	form, cutting, standard making	very essential.
	various parts on the	etc.	
	sketch, drawing the	5. Cut patierns.	
	cardboard and state		
	the sequence of		
	nattern cutting		
3.0	Application of Pattern	1 Assembling of patterns	
	1 Assemble patterns	2 Correction of patterns	
	make corrections.	3. Materials costing.	
	estimate cost of	4. Transferring of test pattern to	
	materials and	permanent pattern.	
	transfer test pattern	1 I	
	to permanent		
	pattern.		

S/No.	Topic/Objectives	Contents	Activities/Remarks
1.0	Cutting and Skiving	1. Machines, equipment and	1. Emphasis should
	Tools and Equipment	hand tools.	be on safety
	1. Identify all	2. Maintenance of machines, tools	tools and
	machines,	and equipment.	equipment
	equipment and	3. Precautions in cutting and	maintenance.
	hands tools used in	skiving.	
	cutting and skiving		
	and explaining		
	their safety		
	precautions.		
2.0	Principles of cutting &	1. Principles of hand cutting	
	Skiving	and hand skiving.	
	1. Explain the	2. Tools for hand cutting and hand	
	principles of hand	skiving.	
	cutting and select	3. Marking for cutting.	
	appropriate tools	4. Inter-locking and pattern	
	for usage.	arrangement.	
	2. Explain skiving	5. Hand cutting.	
	and its purpose.	6. Machine cutting.	
	3. Distinguish	7. Pattern and cutting areas.	
	between pattern	8. Skiving and purposes.	
	areas and cutting	9. Operation of skiving machines.	
	area.	10. Hand Skiving.	
	4. Operate skiving	11. Measurement of leather.	
	machines and		
	carryout hand		
	SKIVINg.		

S/No	Topic/Objectives	Contents	Activities/Remarks
1.0	 Sewing Machine Identify common sewing machines, state their functions and explain their working principles. Differentiate between manual and electric machines. Clean, lubricate, change needles and thread and make necessary adjustment in a sewing machine. 	 Types of sewing machines. Principles of sewing machines. Manual and electric. Functions of machines e.g. flat bed corner stitches, etc. Attachments and functions. Maintenance of sewing machines. Threading and needling. Machine Adjustment. 	 Identification of various types of sewing machines and their attachment.
2.0	Preparation for Sewing 1. Identify different types of needles, thread and select appropriate types for a job	 Types of needles Classification of threads Adjustment of machine tension. Selection of thread and needle. Attachment for a job 	 Type and classification of needles, threads and attachments.
3.0	Machine Sewing 1. Operate sewing machines, identify sewing defects and correct them.	 Machining sequences and procedures. Operation of sewing machine. Types of sewing defects and correction 	1. Practical work involving machines sewing.
4.0	Hand stitching Explain hand stitching procedure and identify stitching faults by correcting them.	 Hand stitching procedure. Stitch length. Tension for hand stitching. (a) Types of stitching. (b) Faults and correction. 	

S/No.	Topic/Objectives	Contents	Activities/Remarks
1.0	Designing and	1. Sequence of pattern cutting.	1. Practical activities
	Pattern Production	2. Grading of patterns	in designing, forme
	1. Design and cut out		cutting, standard
	the design.		making, Working
	2. Application of		patterns, Grading
	patterns.		and Bottom
			patterns i.e. insole,
• •			sotes, heels.
2.0	Pattern Preparation	1. Method of cutting	1. Practical clicking
	1. Cutting and skiving.	2. Types of skiving	of the upper
	2. Safety involved in	5. Knowledge of material.	materials, e.g.
	cutting	4. Knowledge of safety	diagonal outting
		precautions	2 Practical skiving
			2. I factical skiving
			and concave raw
			edge lasting skive
			3 Practical involving
			safety precautions.
3.0	Sewing Machine	1. Preparation operations of	1. Practical involving
	1. Identify sewing	sewing machines.	sewing machine.
	machines,	2. Function of preparation	Stitching aids.
	attachment guides,	operation machines e.g.	Machine
	stitching aids,	skiving machines, folding	maintenance etc.
	types of needles	machines etc.	
	and threads.	3. The functions of sewing	
		machines e.g. flat bed,	
	2. Explain the	 post bed, zig-zag etc. 	
	functions of	4. Attachment guides,	
	preparation	stitching aids and	
	operation	functions.	
	machines, types of	5. Stitch formation and	
	sewing machines,	adjustment e.g. stitch	
	stitch formation	length, tension, etc.	
	and working	6. Machine maintenance.	
	principles of machine for upper	7. Types of ficeures. 8. Changing needles and	
	nreparation	threads	
	proparation.	9 Types of threads	
	3 Clean lubricate	10 Principles of machines for	
	change needles and	upper preparation	
	threads in sewing	11. Principles of various	
	machines.	sewing machines e.g.	
		single needle flat-bed,	

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S/No.	Topic/Objectives	Contents	Activities/Remarks
		twin-needle flat-bed, zig-	
		zag.	
4.0	 Sewing Operation Explain and apply different method of sewing. Assemble and decorate shoe uppers by using different methods of stitching. 	 Methods of sewing. Assembling of upper components. Ornamental stitches. Shoe uppers operation e.g. edge trimming, edge pounding, eye lifting etc. 	1. Emphasis on involving sewing machine, stitching aids, machine maintenance etc.
5.0	Shoe Uppers 1. Prepare shoe uppers following correct sequence.	1. Sequence in shoe upper preparation.	on
6.0	 Tools and Equipment 1. Identify machines, equipment and hand tools used in cutting and preparing shoe bottom components and explain the working principles of the machines. 2. Explain the safety precautions involved in cutting and preparing sole attachments. 	 Types of machines, equipment and hand tools. E.g. cutting press, cutting boards, etc. Storage. Care, adjustment and maintenance of equipment and tools. Precautions in cutting. Functions and principle of machines. 	1. Identification of machine tools, and tools and equipment, precaution and maintenance of equipment.
7.0	Materials for Shoe Bottom 1. Identify the different materials employed for shoe bottoming and shoe bottoming components.	 Types of materials for shoe bottom e.g. leather plastics, etc. Characteristics of materials. Types of shoe bottoming components. Materials for production. 	1. Identification of various types of shoe bottom and materials for production.
8.0	Cutting Materials Bottoming 1. Explain the	 Techniques of cutting. Techniques of cutting by 	1. Practical work involving techniques of

S/No.	Topic/Objectives	Contents	Activities/Remarks
	technique of	hand and machine.	cutting.
	cutting of		
	maximum		
	economy and of		
	cutting		
	economically all		
	bottom parts form		
	man-made		
	materials.		
9.0	Preparation of	1. Methods and tools for	
	Bottoming Parts	roughing operation e.g.	
	1. Select the most	wire brush, abrasive paper	
	suitable method	etc.	
	and tools for	2. Carrying out operation	
	roughing or	e.g. reducing insole and	
	preparing surface	sole edge, insole covering,	G
	before adhesive	insole slotting etc. 🛛 📉	•
	application and	3. Insole moulding, uses and	→
	explain the use	method.	
	and method of		
	insole molding.	\mathbf{O}	
10.0	Tools and	1. Types of machines in shoe	
	Equipment for Shoe	lasting.	
	Lasting	2. Maintenance of	
	1. Identify machines,	equipment.	
	equipment and	3. Precautions in lasting	
	hand tools used in	equipment and machines	
	shoe lasting.	4. Functions and principles	
	2. Explain the safety	of machines.	
	precautions		
	involved in using		
	lasting equipment		
	and machines, the		
	functions and work		
	principles of shoe		
	lasting machines.		
11.0	Upper Lasting	1. Purpose(s) of lasting.	1. Practical involving
	1. Explain the	2. (a) Parts of a last.	bottom metal
	purpose of lasting	3. (b) Methods of bottom	plating heat
	and the different	metal plating.	treatment for
	types of tacks and		materials before
	staples and their	4. Types of materials for	lasting.
	uses in lasting.	stiffener and toe puff e.g.	2. Various techniques
	2. Enumerate and	impregnated cloth etc.	and lasting

S/No.	Topic/Objectives	Contents	Activities/Remarks
	explain different	5. Heat treatment for	operations.
	lasting techniques.	materials before lasting	
	3. Identify different	e.g. solvent activation.	
	types of materials	6. Consequences of stress on	
	used for stiffener	upper materials.	
	and toe puff.	7. Lasting techniques.	
	4. Carry out lasting	8. Lasting operation e.g.	
	operations	insole attaching, upper	
	- F	mulling, etc.	
12.0	Tools and	1. Types of machines.	1. Practical work
	Equipment for	equipment, and hand tool	involving tools and
	Upper Making	in sole attaching e.g.	equipment for sole
	1 Identify various	roughing machines etc	attaching
	machines	2 Storage care adjustment	uturennig.
	equipment and	and maintenance of	
	hand tools used in	machines and equipment	
	sole attaching	3 Precautions in using	O
	2 Explain the safety	equipment	•*
	2. Explain the safety	A Functions and principles	
	involved in using	4. Functions and principles	
	acle attaching	of machines.	
	sole attaching		
	Equipment, the		
	iunctions and		
	working principles		
	of the sole		
	attaching		
	machines.		
12.0			1 1 . 1 .
13.0	Preparation on	1. Types of scouring	1. Practical involving
	Lasted Shoe	abrasive, method and	preparation on
	1. Enumerate the	equipment for roughing.	lasted shoe.
	difference between	2. Shank and bottom fillers.	
	shank and bottom	3. Carrying out operations	
	fillers and carry	e.g. pounding of lasted	
	out lasted shoe	shoe, roughing lasting	
	operation.	margin. Etc.	
14.0	Technique of Sole	1. Types of adhesives, uses	1. Practical work
	Attaching	and properties.	involving the use
	1. Identify different	2. Care and storage of	of adhesives.
	types of adhesives.	adhesives.	
	Explain their uses	3. Mechanism of adhesion	
	and properties.	and precautions.	
	2. Explain how these		
	adhesives should	4. Re-activation of	
	be stored and the	adhesives.	

S/No.	Topic/Objectives		Contents	Activities/Remarks
	specific	5.	Selection of adhesives.	
	precautions to take	6.	Sole attaching operation	
	when attaching		e.g sole treatment,	
	sole to the lasted		mockwell attaching etc.	
	upper.			
	3. Carry out sole			
	attaching			
	operations.			
15.0	Tools and	1. '	Types of machines,	1. Practical work
	Equipment for Shoe		equipment and handtools	involving
	Finishing		for finishing operations	adjustment and
	1. Identify machines,		e.g. trimming machine,	maintenance of
	equipment and		scouring machine, etc.	machines.s
	hand tools used for	2.	Storage, care, adjustment	<u> </u>
	finishing		and maintenance of	
	operations,		machines and equipment.	\mathbf{C}
	explaining their	3.	Precautions in using	•
	functions and		machines and tools.	9
	working principles.	4.	Functions and principles	
	2. Explain the safety		of machines.	
	precautions			
	involved in using			
	the machines.			
16.0	Techniques of Sole	1.	Methods of sole finishing.	1. Practical work in
	and Heel Finishing	2.	Edge trimming tools.	sole and heel
	1. Explain the	3.	Heel scouring abrasives,	making
	difference between		materials and equipment.	
	finishing the sole	4.	Operations for	
	before attaching		performance.	
	and finishing the			
	sole after			
	attaching.			
	2. Select edge			
	trimming tools and			
	heel scoring			
	abrasives.			
17.0	Shoe Cleaning,	1.	Types of cleaning	
	Dressing and		materials e.g. solvent,	
	Packing		detergent, etc.	
	1. Identify cleaning	2.	a) Cleaning products.	
	materials and		b) types of stains or spots.	
	types of shoe	3.	Types of shoe dressing	
	dressing products.		products e.g. polish, filler,	

S/No.	Topic/Objectives	Contents	Activities/Remarks
		waxes, etc.4. Dressing products.5. Operations for performance.	

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