#### **SYLLABUS**

### For The Trade of

### **LEATHER GOODS MAKER**

Under.

Craftsmen Training Scheme & Apprenticeship Training Scheme

Revised in – 2007

Government of India

Ministry of Labour & Employment (DGE&T)

CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

EN Block, sector – V, Salt Lake,

Kolkata - 700091

# List of members attended the Trade Committee Meeting for revising the Syllabus for the Trade of "Leather Goods Maker" under CTS & ATS held on 10.05.2007

Sl.No.	<u>Name</u>	Designation/Representing Org.	
	<u>S/Sri</u>		
1.	D.N.Biswas	Dy. Director General, DGE & T	Chairman
2.	D.Chakraborty	Dy. Director, S.I.S.I. Kolkata	Member
3.	Surojit Mondal	Principal, I.T.I., Kalyani.	Member
4.	Alok Kr. Basu	Supintendent., Govt. College of LeatherTechnology, Kolkata-20	Member
5.	Paresh Chandra Mukherjee	Consultant Safety Products & Services.	Member
6.	Nemai Ranjan Saha	Consultant, S. R. Leather.	Member
7.	Mrs. Antara Kumar	Freya Design & Development Training Institute	Member
8.	Mrs. Aditi Ghose	Bensen Industries., Kolkata	Member
9.	T. Mukhopadhyah	Dy. Director, CSTARI	Member
10.	R.R.Mannewar	Dy. Director, CSTARI	Member
11.	Amalendu Chakraborty	Asstt. Director, C.S.T.A.R.I.	Member
12.	R.N.Manna	Training Officer, C.S.T.A.R.I.	Member
13.	P.K.Dutta	Training Officer, C.S.T.A.R.I.	Member

### **GENERAL INFORMATION**

1. Name of Trade : Leather goods Maker

2. N.C.O. Code No. : 809.10, 809.20, 809.30, 809.40

3. Duration Of Craftsmen Training : One Year

4. Entry Qualification : Minimum VIII th class examination Passed

5. Duration of Apprenticeship Training: Two Years (Including one year

craftsmen Training)

6. Rebate to Ex-ITI Trainees : Full

7. Ratio of Apprentices to Worker: 1: 7

8. Space Required : 6 Sq.ft. per trainee

### NOTE FOR APPRENTICESHIP TRAINING

- 1. The Practical Training Programme of Apprentices under ATS (Apprenticeship Training Scheme) should be as per the facilities available in the Establishment / Industry.
- 2. At the end of shop floor training, an apprentice shall appear for a final examination to be conducted at establishment level based on the actual shop floor training received by the apprentices. This examination shall comprise of assessment of work diaries maintained by the apprentices and Viva Voice to be conducted by an external examiner (other than an official directly responsible for shop floor training).

## SYLLABUS FOR THE TRADE OF LEATHER GOODS CRAFTSMAN UNDER CRAFTSMEN TRAINING SCHEME

Period of Training: One Year

WEEK	<u>PRACTICAL</u>	THEORY
<u>NO.</u>		
01	Familiarisation with the Institute. To	Introduction to the trade. Importance of the trade
	make the trainees familiar with the shop	in the development of the industrial economy of
(1 wk)	discipline, layout of the shop, layout of	the country.
(4)	the machines, equipment, etc. installed	
	in the shop.	
02	Type of practical training to be	Recreational and medical facilities and extra
02.	followed, maintenance and handling of	curricular activities of the Institute (All necessary
(1 1)		guidance to be provided to the new comers to
(1wk)	tools and equipment of the section.	
		become familiar with the working of the
1		Industrial Training Institute system including
		stores procedures).
03	Safety precautions including fire	Safety precautions. Elementary First Aid and
(1wk)	fighting equipment, Accidents, First Aid	treatment.
`	practice and treatment.	
04	Identification of different hand tools	Hand tools used by a trainee in the section, their
) <del></del>	used in the shop. Indenting of tools	kinds, uses, names and function, process of
(11-)	from store.	holding. Machines and needles employed in
(1wk)	Identification of different m/cs &	general leather work, their nomenclature and
		description, operational principles and use.
	equipments.	description, operational principles and use.
	Awareness regarding common machine	en general organism in the state of the stat
	faults & its remedies.	C. L.
05	Care and maintenance of hand tools and	Related Instruction – Subjects to be taught and
(1 wk)	machines and equipment. Safety	achievement to be made.
	precautions. Its importance, cleanliness	
	of the shops.	Common hand tools used by a Leather goods
		maker. Their kinds, uses and materials from
	Sharpening of tools, scissors, knives, &	which they are made. Their names and functions.
*	other cutting tools, method and process	Specification of different tools used in leather
	of holding the tools.	goods manufacture- their nomenclature and
	7 TO 1 TO	description. Different types of needles and part of
		the needle, type of cutting edges in a needle.
06 to 08	Practice on Leather Cutting by hand and	Leather and other substitutes, types & essential
00 10 00	machine	characteristics for different uses. Their
(2 - 1 - 1)	Hiaciniic	identification and selection. Their parts and
(3 wks)		suitability for various purposes. Various types of
	n	hides & skins and fancy leather skins. Their
	Practice of using ornamental materials	qualities and application, limitation and treatment.
		Oil dressed and axed leathers and their uses.
•	,	
		Effects of water, acids, alkalis, friction and heat
	Preparation of specification for	on leather and its substitutes. Types of finished
	ornamental materials.	leather (CG, PG, Fur, Suede leather, Oil pull-up,
	<u> </u>	NUBUCK, NAPPA, WAXY, etc.)

[	09 to 13	Familiarisation and Operation of	Uses of various types of machines. Uses of
'		different machines- Clicking, Skiving	different sewing machine.
1	(5 wks)	(Hand m/c), splitting, lamination,	Description of various fittings such as locks,
'	(	punching, etc.	hurdles, caners, rollers, fasteners, hinges, buckles,
	,		rivets, etc.
		Sewing practice on paper board by hand	Identification of plating and evaluation of their
		and with sewing machine.	quality and appropriate uses in the manufacture of
			leather goods.
		Stitching practice of different types	Various ornamental materials and uses.
		<b>3</b> 1	Various types of needles, bobbins & their uses.
			Needle and thread ratios.
			Choice and purchase of raw materials and sources
	٠.		of supply. Fabric and coated fabrics.
			Types of stitching threads (cotton, nylon,
			polyester and other man made materials)
			Properties of threads and terminology – Fibres,
			yarn, thread no. and sizes.
	14 to 16	Cutting out, Punching and skiving	Classification of leather goods. Brief knowledge
ł		straps, rug and parcel carriers, Fixing	about characteristics of leather goods. Their
	(3 wks)	buckles, Purses, Cutting tongs, leashes,	purpose – sizes – shapes for various uses-
	(	dog belt, game carriers, waste belt, key	Industrial & consumer type.
	•	cases, optical case, vanity bags, Optical	
Ì		case, Camera case, money purse, hand	
1		gloves, school bags etc.	Measurements, its principles and direction for
			applicable to leather work. Weights and measures.
		Finding the sections of a finished job.	Area measurement of skins. Area measurement of
١			patterns.
			TV 1 1 - Line their atmenture and quality
1	17 to 21	Freehand sketching of basic designs of	Hides and skins – their structure and quality. Flaws and defects. Parts of hides, their names and
		leather goods.	uses. Quality and substance in different parts and
	(5 wks)		their variations. Stretch in skins – its extent and
	•		direction. Curing of hides and skins.
			Tanning process – Pre tanning and Post tanning.
		Designing and the various edge	Tanning process – Fre taining and Fost taining.  Tanning of hides and skins and their types and
	}	treatment, folded edge, bagged edge,	their essential characteristics for different uses.
		gimped edge & piping etc.	Their identification and selection.
			Then identification and selection.
	1		Designing - Design and its principle. Fashion and
			its influence on leather work. Pattern and styles,
		Pattern making and template making for	their names and description, application and
	1	different types products.	economical execution. Preparation of patterns for
		Preparation of pattern for upper and	coin purse, wallets, hand bags, portfolio, etc.
	1		, , , , , , , , , , , , , , , , , , ,
		lining materials.	Specification and description of the materials
			used in the manufacture of various standard /
		Preparation of components.	tailor made leather goods. Drawing of different
		1 Topatation of composition.	types of leather goods. Standard size range for
	` ·		different leather products.
	1		· · · · · · · · · · · · · · · · · · ·

Turn edged articles, Unstiffner articles, Built up articles, moulded articles.	Types of lining materials. Different grinderies used for leather products. Use of synthetic materials in combination with leather used for
	articles.
	Stores used as reinforcements, their types and utility. Textile fabrics and their applications.
は、 できない (And And And And And And And And And And	Method of construction and their description. Cutting, punching, Edges and their kinds. Sewing operation. Fixing buckles, sears, their types and treatment. Threads – its types and uses. Seam strengths. Varieties of stitches used in leather goods.
	Adhesives employed in leather work, their names and description, preparation and application. Technical terms applicable to the trade, such as darji, kafai, framing, blocking, etc.
Sequence of operations for	Thronging by hand, types of thronging, designing
manufacturing of various types of	methods of colouring, etc. Use of leather thongs
	in leather goods.
tourier products	Selection of leather for various leather articles,
	types of leather used for different articles and
Cutting out and sewing holdalls.	their characteristics. Chrome leather, suitcase
	leather, embossed leather, betting leather, Leather
bodding rolls, value	for industry Leather goods.
Identification & character of various	Different type of leather & their character.
Industrial visit to Tan	nery and Leather goods industry
LEAGUE	
Making of various types of leather	General costing of leatherwork. Costing methods
	for materials by weight and by measurement.
- I	
	Type-tages its proportions and limits Waste
Economical adjustment of cutting	Wastages, its proportions and limits. Waste
Economical adjustment of cutting leather and lining for various products.	cutting and their utilisation.
leather and lining for various products.	cutting and their utilisation.
leather and lining for various products.	cutting and their utilisation.  Different types of treatment for storage.
leather and lining for various products.	cutting and their utilisation.  Different types of treatment for storage.  Preservation and storing of raw materials.
leather and lining for various products.  Preparation of cost sheet. Calculation of	cutting and their utilisation.  Different types of treatment for storage.
	Sequence of operations for manufacturing of various types of leather products.  Cutting out and sewing holdalls, bedding rolls, valises.  Identification & character of various leather materials

37 & 38	Antique treatment. Embossing and	Finishing processes abrasion and their	
	finishing of leather products.	description. Waxes and inks used in finishing,	
(2wks)	-	their names and application. Cleaning and	
		glossing of types of leather and their methods.	
		Marks and blemishes- identification & their	
		character and processes for removal.	
		Artistic leatherwork, modelling, types of	
		modelling, embossing, embossed leather goods.	
		Spirit colour used in leatherwork.	
39 & 40	Quality control and inspection of leather	Packing and forwarding of finished products of	
(2 wks)	products.	leather goods items.	
(2 WAS)	products.	<i>3</i>	
41	General maintenance of machines,	General maintenance system of machines,	
41	1 Total Control of the Control of th	equipments and Tools.	
	equipments and Tools	Cquipmonts and Tools.	
(1 wk)			
42 to 45	General repairs of different types of	Commercial calculations cost of finished products	
42 10 43	leather goods.	and their selling prices. Overhead cost and their	
(4 ***1**a)	leather goods.	distribution over production.	
(4 wks)		Marketing of finished products.	
		Selling methods.	
46	Visit to Inc	lustrial Establishment	
46		t to accompany trainees during their visit to	
(1 wk)	The instructor should make it convenient	s of machines used, if any (as they may not be	
	establishments and explain the new types	s of machines used, if any (as the) may have supervisor / foreman see that the trainees observe	
	provided in 111 s ) and with the help of s	upor visor / foroman soo unat the trainess seems	
	working of the new machines that are in	usc.	
47 to 49	REVI	SION OF SKILLS	
(3 wks)	Pattern maker, Leather Cutter (manual & clicking), Splitting, Skiving, Stitching, Finishing		
50 & 51	Practice on different machines		
(2 wks)			
52	TEST		
,			
(1 wk)			

SOCIAL STUDIES:

The syllabus has already been approved and is same for all the trades.

### LIST OF TOOLS & EQUIPMENT FOR THE TRADE OF LEATHER GOODS MAKER

(For a batch of 16 trainees)

	ADDICE ADDICE DO	•	QUANTITY
<u>SL.</u>	NAME OF THE ARTICLES		XX
<u>NO.</u>	$A = H_{A}^{A} + A_{A}^{A}$ , where $A = A_{A}^{A} + A_{A}^{A}$		
4	D-1		16 nos.
1.	Polypropylene board 40 x 40 x 10 cm. Wooden block 30 x 10 x 10 cm.		16 nos.
2.			16 nos.
3.	Wooden clamp (standard size)		04 nos.
4.	Steel clamp rule 300 mm		04 nos.
5.	Steel clamp rule 600mm		16 nos.
6.	Set square		04 nos.
7.	Strap cutter		16 nos.
8.	Compass		16 nos.
9.	Divider 20 mm		04 nos.
10.	Divider with scale 20 cm.		16 nos.
11.	Scissor 150 mm		16 nos.
12.	Scissors 300 mm		16 nos
13.	Scissors for cutting zig – zag 200 mm		04 nos.
14.	Clicking Knives	• *	04 nos
15.	Designer Knives		04 nos.
16.	Sniper 2" – 3"		16 nos.
17.	Sniper 6"		16 nos.
18.	Hammer Big		16nos.
19.	Hammer small		01 no.
20.	Magnetic Hammer 25 cm.		16 nos.
21.	Ladies magnetic hammer 10 cm.		04 nos
22.	Beading hammer (folding hammer)		16 nos
23.	Mallet		16 nos.
24.	Pincers 10 cm		01 no.
25.	Pincers 25 cm	•	16 nos.
26.	Iron creaser doubles		16 nos.
27.	Wooden creaser single		16 nos.
28.	Wooden creaser doubles		16 nos. 16nos.
29.	Rampis		16 nos.
30.	Curved rampis		04 nos.
31.	Gultarash rampi		04 nos.
32.	Half moon shape rampi		16 nos.
33.	Awls		16 nos. 16 nos.
34.	Blunt awls		16 nos.
35.	Stitch marking awls		16 nos.
36.	Scriber		16 nos.
37.	Punches 1, 3, 4		04 set
38.	Punch set no. 1 to 10		04 set
39.	Pavalving nunches		01 set 04 nos.
40.	Punch (for punching holes in metal sh	eet / strip) 2 mm	04 nos. 04 nos.
41.	File flat rough 90 mm		04 nos. 04 each
42.	Stitching comb – assorted (1, 2 and 3	mm)	04 Cacii

43.	Cutting pliers 150 mm		04 nos.
44.	Set of screw drivers	•	01 set
45.	Philips screw driver set		01 set
46.	Eye let setter with die		04 nos.
47.	Measuring tape (Cotton/plastic) - 2 meter long		04 nos.
48.	Leather thickness measuring Gauge (Micro)		02 nos.
49.	Bench vice – 100 mm	*	02 nos.
50.	Flat chisel 20 mm nose width		04 nos.
51.	Horns biyongi		02 nos.
52.	Heel iron Electric		01 no.
53.	French curve set		01 set
54.	Modelling tool set (Tracer & modeller bewal & t	ool, porker marker)	01 set
55.	Glue container and glue brushes		08 nos. each
56.	Press (Iron)		01 no.
57.	Maintenance tool		01 set
		***	•
			A
MAC	<u>HINES</u>		
			• •
01.	Card board cutting machine 900 mm capacity		01 no.
	(Power Operated)		
02.	Sewing machine tradle operated Flat bed		04 nos.
•	(Single needle capacity) Power operated		
03.	Sewing machine power operated heavy duty		01 no.
04.	Splitting machine upper		01 no.
05.	Stamping die machine		01 no.
06.	Stamping machine table type		01 no.
07.	Cylinder bed sewing machine		01 no.
08.	Post bed sewing machine		01 no.
09.	Zig – Zag stitching machine		01 no.
10.	Skiving machine		01 no.
11.	Strap cutting machine		01 no.
12.	Edge folding machine		01 no.
13.	Roller		01 no.
14.	Splitting machine bottom		01 no.
15.	Hand eye letting machine		01 no.
16.	Bottom setting machine		01 no.
17.	Inter lock machine	•	01 no.
18.	Edge colouring machine		01 no.
19.	Clicking machine		01 no.
7			•
FURN	NITURES		
01.	Stools wooden high 450 mm		16 nos.
02.	Working desk		16 nos.
03.	Work benches		04 nos.
04.	Almirahs		02 nos.
05.	Show case		01 no.
06.	Instructors desk and chair		01 set
J 4.			

### Syllabus for the Trade of "Leather Goods Maker" under Apprenticeship Training Scheme

### Period of Training: 1 year

The content of syllabus during first year training for the apprentices will be same as that of the syllabus of the CTS for the trade of "Leather Goods Maker".

### SHOP FLOOR TRAINING:

The operations or skills given below in this list should be learnt on the shop floor during apprentice training. The apprentices should have more practice on the shop floor on these operations or skills which have been already learnt during basic training or Craftsmen training.

The following exercises will be carried out by individual trainees under the guidance of the instructor to avoid any wastage of raw materials and will be confirmed to the production of such articles as are required for use or for which there is a ready demand in the locality, in order to eliminate accumulation of stocks:-

- 1. Practice in care and maintenance of hand tools.
- 2. Kit cutting.
- 3. Sewing leather by hand and with sewing machine.
- 4. Pattern cutting and template making for different types of articles.
- 5. Comprehensive training in cutting techniques both for hand cutting as well as with modern cutting machines.
- 6. Economical adjustment of cutting leathers and lining for various products.
- 7. Splitting of leather to desired thickness.
- 8. Skiving Both hand skiving and machine skiving.
- 8. Skiving Both hand skiving and machine skiving.
  9. Cutting out, punching and skiving straps, rug and parcel carrier, fixing buckles, purses, cutting thongs, leashes, dog whips, game carriers, etc.
- 10. Various methods of assembling, cementing and closing of finishing.
- 11. Training on various types of sewing machines and finishing.
- 12. Leather craft work like embossing, thronging, binding tooling, etc. and production of tooled articles like belts, purses, key case, comb, etc.
- 13. Further practice in making of small leather goods like money purses, wallets, belts, key cases, school bags, shoulder bags, etc.
- 14. Cutting and sewing holdalls, bedding rolls, valises.
- 15. Making of hand bags, despatch cases, and Gladstone bags, suitcases, leather trunks, zipper cases, document cases, attaché cases, school bag etc.
- 16. General repair work.

As soon as the trainee has acquired the requisite degree of skill in the trade, he should undertake to cut, stitch and finish leather goods of various kinds, such as straps, rugs and parcel carriers, dog whips, holdalls, bedding rolls, lady's purses, doctor's bags, sachets, etc.

### RELATED INSTRUCTION - TRADE THEORY:

Materials used as reinforcements, Their types and utility and other fittings and their application. Methods of construction and their description, cutting, punching edges and their kinds, sewing operations. Fixing - its types and their uses. Seam strengths, stitches used in closing. Adhesives used in leather work, their names and description. Preparation and application, technical terms applicable to the trade such as dargai, kafai, framing, blocking, etc.

Brief knowledge about characteristics of leather goods. Classification of leather goods. Their purpose - sizes - shapes for various uses - Industrial and consumer type.

Finishing processes (abrasion) and their description. Waxes and inks used in finishing, their names and application, cleaning and glossing different types of leather and their methods. Marks and blemishes, their character and processes for removal.

Measurement its principle and direction applicable to leather work, weights and measures. Area measurement of skins. Area measurement of patterns.

Fibre structure and basic knowledge of physical properties. Synthetic materials and polymers (definition, types of polymers).

Designing – Design and its principle. Fashion and its influence on leather work generally. Patterns and styles, their names and description, application and economical execution.

Choice and purchase of raw material and sources of supply. Wastages and its proportions and limits, waste cutting and their utilisation.

General costing of leather work by weight and by measurement. Commercial calculations, costs of finished products and their settling process. Overhead costs and their distribution over production.

Marketing of finished products, selling methods.

### DESIGN DEVELOPMENT

Design and pattern making, introduction to modern tools of production, different types of leather used for making various types of leather goods and their properties, various types of adhesives used, various types of fittings used, various types of foundations used, various types of linings used, various types of threads used, economic layout of patterns for minimising wastage. Basic knowledge in manufacture of garments.

### **FABRICATION**

Introduction to various methods of production. Use of simple as well as sophisticated machines in order to improve quality of products and increase productivity.

Comprehensive training in cutting techniques both for hand cutting as well as with modern cutting machines – various methods of assembling, closing and finishing – training on sewing machines of various types used in leather goods manufacture.

#### **MACHINE SHOP**

Training in installation and maintenance of machinery – designing of modern jigs, making template fittings and tools for more efficient production. Instruction in preventive maintenance system. Inventory and spare parts control.

ali ali ali ali ali ali (n. 1131), sa il n**um**à basangàs il j State of the state 

en la comitación de la compania del compania del compania de la compania del compania del compania del compania de la compania del com i under a fee e de et touet i en en estat i ville en l'occión. La litte de el estat de la deservation de la companya de la companya de la companya de la companya de la company La litte de la companya de la compa

1.80

は、「「「「「「」」」」という。 「「」」という。 「「」」という。 「「」」という。 「「」」という。 「」」という。 「「」」という。 「」」という。 「」」 A CARL STORY STATE OF THE STATE OF water parties of the first

Control of the second en de la companya de la co Wall Commencer of the C