



GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

LEATHER GOODS MAKER

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL- 3



SECTOR –LEATHER



Directorate General of Training

LEATHER GOODS MAKER

(Non-Engineering Trade)

(Revised in 2019)

Version: 1.2

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 3

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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1. COURSE INFORMATION

During the one-year duration of “Leather Goods Maker” trade, a candidate is trained on Professional Skill, Professional Knowledge and Employability Skill related to job role. In addition to this, a candidate is entrusted to undertake project work, extracurricular activities and on-the-job training to build up confidence. The broad components covered under Professional Skill subject are as below:-

The trainee will learn about safety and environment, use of fire extinguishers, artificial respiratory resuscitation to begin with. They get the idea of trade tools and its standardization. They can select the appropriate leather and verify the characteristics of different fancy and finished leather. They will be able to prepare different sketch & design of various leather goods, identify hides & skins. They can prepare pattern, design & cutting. They will also perform sewing operation using appropriate techniques for assembling and manufacturing of cut edged articles coin purse, key case & gents belt. The trainees will acquire the knowledge of various substitute materials of leather and method of applications and their uses.

The candidate will carry out maintenance of tools and equipment of the section observing safety precaution. They can identify, operate, troubleshoot & maintenance of different tools, machines & equipment used in leather goods making. They will be able to select appropriate leather & ornamental materials and prepare various leather goods by using electrical and hand operated machines observing quality parameters. The trainee will also acquire knowledge of sequence of operation in leather goods productions. They will be able to identify and use different electrical equipment and perform various process (hydraulic cutting and clicking, straps cutting, splitting, embossing, cementing, zigzag sewing and flat bed, post bed stitching).

2.1 GENERAL

The Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers a range of vocational training courses catering to the need of different sectors of economy/ Labour market. The vocational training programmes are delivered under the aegis of Directorate General of Training (DGT). Craftsman Training Scheme (CTS) with variants and Apprenticeship Training Scheme (ATS) are two pioneer schemes of DGT for strengthening vocational training.

‘Leather Goods Maker’ trade under CTS is delivered nationwide through a network of ITIs. The course is of one year duration. It mainly consists of Domain area and Core area. The Domain area(Trade Theory & Practical) imparts professional skills and knowledge, while the core area(Employability Skill) imparts requisite core skills, knowledge, and life skills. After passing out the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

Candidates broadly need to demonstrate that they are able to:

- Read and interpret technical parameters/documents, plan and organize work processes, identify necessary materials and tools;
- Perform tasks with due consideration to safety rules, accident prevention regulations and environmental protection stipulations;
- Apply professional skill, knowledge & employability skills while performing jobs.
- Document the technical parameters related to the task undertaken.

2.2 PROGRESSION PATHWAYS

- Can join industry as Craftsman and will progress further as Senior Craftsman, Supervisor and can rise up to the level of Manager.
- Can become Entrepreneur in the related field.
- Can join Apprenticeship programs in different types of industries leading to a National Apprenticeship certificate (NAC).
- Can join Crafts Instructor Training Scheme (CITS) in the trade for becoming instructor in ITIs.
- Can join Advanced Diploma (Vocational) courses under DGT as applicable.

2.3 COURSE STRUCTURE

Table below depicts the distribution of training hours across various course elements during a period of one year: -

S No.	Course Element	Notional Training Hours
1	Professional Skill (Trade Practical)	1200
2	Professional Knowledge (Trade Theory)	240
3	Employability Skills	160
	Total	1600

2.4 ASSESSMENT & CERTIFICATION

The trainee will be tested for his skill, knowledge and attitude during the period of course through formative assessment and at the end of the training programme through summative assessment as notified by the DGT from time to time.

a) The **Continuous Assessment** (Internal) during the period of training will be done by **Formative Assessment Method** by testing for assessment criteria listed against learning outcomes. The training institute has to maintain an individual trainee portfolio as detailed in assessment guideline. The marks of internal assessment will be as per the formative assessment template provided on www.bharatskills.gov.in

b) The final assessment will be in the form of summative assessment. The All India Trade Test for awarding NTC will be conducted by Controller of examinations, DGT as per the guidelines. The pattern and marking structure is being notified by DGT from time to time. **The learning outcome and assessment criteria will be the basis for setting question papers for final assessment. The examiner during final examination will also check** the individual trainee's profile as detailed in assessment guideline before giving marks for practical examination.

2.4.1 PASS REGULATION

For the purposes of determining the overall result, weightage of 100% is applied for six months and one year duration courses and 50% weightage is applied to each examination for two years courses. The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%. There will be no Grace marks.

2.4.2 ASSESSMENT GUIDELINE

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking the assessment. Due consideration should be given while assessing for teamwork, avoidance/reduction of scrap/wastage and disposal of scrap/waste as per procedure, behavioral attitude, sensitivity to the environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work

Evidences and records of internal (Formative) assessments are to be preserved until forthcoming examination for audit and verification by examining body. The following marking pattern to be adopted while assessing:

Performance Level	Evidence
(a) Weightage in the range of 60%-75% to be allotted during assessment	
For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices	• Demonstration of good skills and accuracy in the field of work/ assignments. • A fairly good level of neatness and consistency to accomplish job activities. • Occasional support in completing the task/ job.
(b) Weightage in the range of 75%-90% to be allotted during assessment	
For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with	• Good skill levels and accuracy in the field of work/ assignments. • A good level of neatness and consistency to

little guidance, and regard for safety procedures and practices	accomplish job activities. • Little support in completing the task/job.
(c) Weightage in the range of more than 90% to be allotted during assessment	
For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.	• High skill levels and accuracy in the field of work/ assignments. • A high level of neatness and consistency to accomplish job activities. Minimal or no support in completing the task/ job.

3. JOB ROLE

Stitcher (Leather Goods and Garments); also called a ‘sewer’ is an important job role associated with Leather Goods and Garment sector. The primary responsibility of a stitcher is to sew fabric, fur, leather or synthetic materials to produce garments and other articles.

Pattern Maker, Fur; prepares patterns and full-size canvas models of garments and other articles of fur to guide Cutters and Finishers. Draws pattern on paper in accordance with garment design or customer's measurements. Makes canvas model of garment according to pattern. Checks patterns and model for accuracy and makes necessary alterations. Passes them to garment Cutters or Finishers. Examines completed garment for defects. Cuts patterns for fur trimmings, accessories and other fur articles and for alteration of fur articles. May cut patterns for fancy leather goods.

Supervisor and Foreman, Leather Goods Making; supervises manufacture of fancy and other leather goods such as gloves, suitcases, purses, belts, whips, etc. according to customer’s choice or latest designs. Studies designs from catalogue or samples and decides manufacturing process. Arranges for required type and quality of materials and gets working pattern made to suit specifications. Instructs and guides workers as required and ensures correct operations and quality and finish of ultimate product. May specialize in manufacture of any particular items and be designated accordingly.

Reference NCO-2015:

- (i) 8153.0102 – Stitcher (Leather Goods and Garments)
- (ii) 7531.1300 – Pattern Maker, Fur
- (iii) 3122.3300 – Supervisor and Foreman, Leather Goods Making

4. GENERAL INFORMATION

Name of the Trade	Leather Goods Maker
Trade Code	DGT/1079
NCO - 2015	8153.0102, 7531.1300, 3122.3300
NSQF Level	Level-3
Duration of Craftsmen Training	One Year (1600 Hours)
Entry Qualification	Passed 8 th Class Examination
Minimum Age	14 years as on first day of academic session.
Eligibility for PwD	LD, CP, LC, DW, AA, LV, DEAF, HH, AUTISM, ID, SLD
Unit Strength (No. of Student)	20 (There is no separate provision of supernumerary seats)
Space Norms	72 Sq. m
Power Norms	4 KW
Instructors Qualification for:	
(i) Leather Goods Maker Trade	B.Voc/Degree in Leather Technology from UGC recognized university with one year experience in the relevant field. OR Diploma (Minimum 2 years) in Leather Technology from a recognized board of education or relevant Advanced Diploma (Vocational) from DGT with two-year experience in the relevant field. OR NTC/ NAC passed in the trade of “Leather Goods Maker” with three-year experience in the relevant field. <u>Essential Qualification:</u> Relevant National Craft Instructor Certificate (NCIC) in any of the variants under DGT. <i>Note: - Out of two Instructors required for the unit of 2(1+1), one must have Degree/Diploma and other must have NTC/NAC qualifications. However, both of them must possess NCIC in any of its variants.</i>
(ii) Employability Skill	MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years' experience with short term ToT Course in Employability Skills from

	DGT institutes. (Must have studied English/ Communication Skills and Basic Computer at 12th / Diploma level and above) OR Existing Social Studies Instructors in ITIs with short term ToT Course in Employability Skills from DGT institutes.		
Minimum Age for Instructor	21 Years		
List of Tools and Equipment	As per Annexure – I		
Distribution of training on hourly basis: (Indicative only)			
Total Hrs./ Week	Trade Practical	Trade Theory	Employability Skills
40 Hours	30 Hours	6 Hours	4 Hours

5. LEARNING OUTCOME

Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1 LEARNING OUTCOMES (TRADE SPECIFIC)

1. Select the appropriate leather and verify the characteristics of different fancy and finished leather following safety precautions.
2. Sketch and design various leather goods, identify hide and skin and make pattern, prepare pattern design and cutting.
3. Apply sewing operation using appropriate techniques for assembling and manufacturing of cut edged articles coin purse, key case and gent's belt.
4. Apply proper process of embossing for finishing leather goods.
5. Select and perform various small leather measurements to produce different leather goods like wallet, ladies clutch purse and gents belt.
6. Identify various substitute materials of leather and method of applications and their uses.
7. Apply method for economical cutting and calculate production cost observing quality control aspect.
8. Take care and Maintain tools and equipments of the section observing safety precautions.
9. Identify, operate, troubleshoot and maintain different tools, machines and equipments used for leather goods making.
10. Select appropriate leather and ornamental materials and prepare various leather goods by using electrical and hand operated machines observing quality parameters.
11. Apply sequence of operations in leather goods production.
12. Identify and use different electrical equipments and perform various processes (hydraulic cutting and clicking, straps cutting, splitting, embossing, cementing, zigzag swing machine and flat bed, post bed stitching machines.)

6. ASSESSMENT CRITERIA

LEARNING OUTCOMES	ASSESSMENT CRITERIA
1. Select the appropriate leather and verify the characteristics of different fancy and finished leather following safety precautions.	Plan the work in compliance with standard safety procedure.
	Mark as per specification applying desired mathematical calculation and observing standard procedure.
	Identify various types of leather and pre tanning, tanning, post tanning processes are formulated based on the final characteristics required for the final product.
	Effect of water, acids, alkalis, friction and heat on leather and substitute materials are compared
	Different types of finished leather viz. CG, PG, Fur, Suede leather, Oil pull up, Waxy, Nubuck, Nappa etc. are identified.
2. Sketch and design various leather goods, identify hide and skin and make pattern, prepare pattern design and cutting.	Select raw materials and visually inspect for defects.
	Different types of patterns are identified and components are cut by hand or using clicking press.
	Free hand sketching of various basic designs of leather goods is performed.
	Mark the job as per blueprint.
	Patterns and templates are prepared for various leather goods.
	Various methods of construction and edge treatment are performed according to the type of leather goods.
3. Apply sewing operation using appropriate techniques for assembling and manufacturing of cut edged articles coin purse, key case and gent's belt.	Various grinders, synthetic materials, adhesives used in the leather products are identified.
	Different types of stitching are performed on leather and synthetic materials in combination with leather.
	Various types of adhesives and their application in leather goods manufacture are established.
	Gluing and assembling components.
	Trimming and finishing.
	Use of hole punch, reveting punch, press buttons, punch for fixing key hook.
4. Apply proper process of embossing for finishing leather goods.	Select required material for antique treatment.
	Prepare required tools, equipment and materials as per applications.

	Plan and execute different process of embossing for finishing leather goods.
	Cleaning, polishing and finishing for removal of marks and blemishes from leather are performed.
	Antique treatment, embossing, spirit colour etc. are applied for artistic leather work.
5. Select and perform various small leather measurements to produce different leather goods like wallet, ladies clutch purse and gents belt.	Measurement of leather for making medium leather goods viz. travel bags, ladies hand bag etc. are performed.
	Costing of products based on measurements are worked out.
	Prepare Cutting components according to patterns.
	Practice stitching wallet, belt.
	Practice skiving edges for folding components.
	Prepare cutting strips for required leather and width.
6. Identify various substitute materials of leather and method of applications and their uses.	The substitute materials for making leather goods are identified and their uses are practiced.
	Identify different substitute materials and their uses.
	Apply method of applications for substitute materials.
	Prepare different type edge treatment.
7. Apply method for economical cutting and calculate production cost observing quality control aspect.	Methods for economical cutting of leather, lining and substitute materials are practiced to reduce the wastage.
	Cost sheets are prepared for different leather goods based on the materials consumed and wastage thereof.
	Products are inspected and checked against quality parameters.
	Methods of storage, packing and forwarding of finished products are established.
	Quality check for dimensional accuracy as per standard procedure.
8. Take care and Maintain tools and equipment of the section observing safety precautions.	Tools, equipment and machineries for making leather goods are identified.
	Handling and maintenance of the tools and machineries with knowledge of the functions of various parts of it are performed.
	Safety signs for danger, warning, caution and personal safety messages are identified.
	Safety precautions including firefighting equipment and first aid practices are introduced

9. Identify, operate, troubleshoot and maintain different tools, machines and equipment used for leather goods making.	Convert the prepared circuit into layout diagram.
	Identify various input and output socket connectors of the given machines.
	Explore various troubleshooting and faultfinding the resources provided.
	Identify major section and panel board of the equipment.
10. Select appropriate leather and ornamental materials and prepare various leather goods by using electrical and hand operated machines observing quality parameters.	Suitability of different types of leathers for various leather goods is established and appropriate leather is selected for the type of leather goods.
	Different types of leather goods are fabricated using manual and machine operations.
	The leather goods are inspected for their quality parameters.
	Select ornamental materials like locks, frames, straps fitting, handle fitting and hooks of different size, shape, style and metal.
	Practice on hinges, clips and fasteners, size and style and rivet buttons use for fixing.
11. Apply sequence of operation in leather goods productions.	Identify the different hand tools.
	Selection of proper tools for operation and precautions in operation.
	Selection of different quality leather, grade, size, color and grain matching.
	Plan and organize Cleaning stains and spots, creasing by crazing tools.
	Perform Thread trimming, burning and finishing.
12. Identify and use different electrical equipment and perform various processes (hydraulic cutting and clicking, straps cutting, splitting, embossing, cementing, zigzag swing machine and flat bed, post bed stitching machines.)	Identify different parts and section of clicking machine.
	Operate hydraulic cutting and clicking machine to produce leather goods.
	Identify different parts and operate strap cutting machine with proper sequence.
	Identify different parts and operate strap cutting machine with proper sequence.
	Identify different parts, function and operate splitting machine with proper sequence.
	Identify different parts, function and operate Hydraulic embossing

	machine with proper sequence.
	Identify different parts, function and operate cementing press machine with proper sequence.
	Identify different parts, function and operate Zig Zag with proper sequence.
	Identify different parts, function and operate bed & post bed stitching machine with proper sequence.

7. TRADE SYLLABUS

SYLLABUS -LEATHER GOODS MAKER			
Duration – One Year			
Duration	Reference Learning Outcome	Professional Skills (Trade Practical) With Indicative Hours	Professional Knowledge (Trade Theory)
Professional Skill 90Hrs. Professional Knowledge 18 Hrs	Select the appropriate leather and verify the characteristics of different fancy and finished leather following safety precautions.	1. Familiarization with the Institute. (10 hrs.) 2. To make the trainees familiar with the shop discipline, layout of the shop, layout of the machines, equipment, etc. installed in the shop. (05 hrs.) 3. Understand various section designing, cutting, clicking, stitching and assembling system. (10 hrs.) 4. Practice safe methods of handling tools. (05 hrs.)	Introduction to the trade, Importance of the trade in the development of the industrial economy of the country. Knowledge of General Safety, Occupational health and hygiene.(06 hrs.)
		5. Safety precautions including firefighting equipment, Accidents, First Aid practice and treatment. (10 hrs.) 6. Identification of safety sign for danger, warning, caution and personal safety message. (10 hrs.) 7. Practice and understand precaution to be followed while working in fitting jobs. (05 hrs.) 8. Check specification sign, symbols of fire extinguishers. (05 hrs.)	Safety precautions. Elementary First Aid and treatment. First Aid Box Identification. Hides and Skins-their structure and quality. Stretch in skins-its extent and direction. Tanning process-Pre tanning and Post tanning. Tanning of hides and skins and their types and their essential characteristics for different uses. Identification & character of various leather materials, other substitutes, types

		9. Various types of hides & skins and fancy leather skins. Their qualities. (07hrs.) 10. Application, limitation and treatment. Oil dressed and axed leathers and their uses. (08hrs.) 11. Effects of water, acids, alkalis, friction and heat on leather and its substitutes. (07hrs.) 12. Types of finished leather (CG, PG, Fur, Suede leather, Oil pull-up, NUBUCK, NAPPA, WAXY, etc.) (08hrs.)	&essential characteristics for different uses. Their identification and selection. Their parts and suitability for various purposes.(12 hrs.)
Professional Skill 60Hrs. Professional Knowledge 12Hrs	Sketch and design various leather goods, identify hide and skin and make pattern, prepare pattern design and cutting.	13. Freehand sketching of basic designs of Leather goods. (20 hrs.) 14. Designing and the various edge treatment, folded edge, bagged edge, gimped edge & piping etc. (15 hrs.) 15. Curing of hides and skins. Preparation of patterns for coin purse, wallets, hand bags, portfolio, etc. (10 hrs.) 16. Pattern making and template making for different types products. (15 hrs.) 17. Preparation of pattern for upper and lining materials. (10 hrs.) 18. Manufacturing of cut edged articles, Turn edged	Pattern and styles, their names and description. Drawing of different types of leather goods. (12 hrs.)

		articles, unstuffed articles, built up articles, molded articles. (10 hrs.) 19. Cutting, punching, Edges and their kinds. (10 hrs.)	
Professional Skill 90Hrs.	Apply sewing operation using appropriate techniques for assembling and manufacturing of cut edged articles coin purse, key case and gent's belt.	20. Selection of required material, accessories. (02 hrs.) 21. Prepare required tools equipment and machines. (03 hrs.) 22. Prepare pattern components. (02 hrs.) 23. Cutting components according to pattern upper inner and gussets. (05 hrs.) 24. Make marks for pocket balance mark. (06 hrs.) 25. Creasing by creasing tool. (02 hrs.) 26. Gluing and assembling components. (02 hrs.) 27. Stitching. (02 hrs.) 28. Hole punching for fixing press buttons with press button punch. (02 hrs.) 29. Edge coloring and finishing. (02 hrs.) 30. Trimming and finishing. (02 hrs.)	Measuring tape, cutting knife, steel scale, silver pencil, hammer, folding hammer, scissor, awl, hole punch, press button punch, creaser, sewing machine flat bed and post bed. Work table. Gluing and assembling. Edge coloring and finishing. (06 hrs.)
Professional Knowledge 18 Hrs		31. Selection of required material, accessories. (02 hrs.) 32. Prepare required tools equipment and machines. (02 hrs.) 33. Cutting components according to pattern upper, inner,	Measuring tape, cutting knife, steel scale, silver pencil, hammer, folding hammer, scissor, awl, hole punch, press button punch, creaser, swing machine flat bed and post bed. Creasing tool. Work table cutting table.

		reinforcement. (06 hrs.) 34. Creasing of components by creasing tools. (04 hrs.) 35. Gluing and assembling components. (05 hrs.) 36. Stitching. (03 hrs.) 37. Use hole punch, riveting punch, press buttons punch for fixing key hook, press buttons. (03 hrs.) 38. Edge coloring and finishing. (02 hrs.) 39. Trimming and finishing. (03hrs.)	Stitching, Trimming and finishing. (06 hrs.)
		40. Selection of required material, accessories. (02 hrs.) 41. Prepare required tools equipment and machines. (03 hrs.) 42. Cut components according to (pattern) length and width. (03 hrs.) 43. Gluing and assembling components. (03 hrs.) 44. Stitching. (05 hrs.) 45. Punching. (05 hrs.) 46. Attached buckle, loops. (03 hrs.) 47. Edge finishing and creasing. (03 hrs.) 48. Trimming and finishing. (03 hrs.)	Measuring tape, cutting knife, steel scale, silver pencil, hammer, folding hammer, scissor, awl, hole punch, press button punch, creaser, swing machine flat bed and post bed. Creasing tool. Crew punch. Work table cutting table. Buckle, loops. (06 hrs.)
Professional Skill 30Hrs. Professional Knowledge 06 Hrs	Apply proper process of embossing for finishing leather goods.	49. Antique treatment. Embossing and finishing of leather products. (06hrs.) 50. Cleaning and glossing of types of leather and their methods. (06hrs.)	Finishing processes abrasion and their description. Waxes and inks used in finishing, their names and application. Knowledge of artistic leather

		51. Marks and blemishes-their character and processes for removal. (08hrs.) 52. Practice on artistic leather work, modeling, application of modeling, embossing, embossed leather goods. (05hrs.) 53. Spirit colour used in leather work. (05hrs.)	work, modeling, types of modeling, embossing, embossed leather goods. Spirit colour used in leather work.(06 hrs.)
Professional Skill 90Hrs.	Select and perform various small leather measurements to produce different leather goods like wallet, ladies clutch purse and gents belt.	54. Select required material and accessories for wallet. (03 hrs.) 55. Prepare required tools equipment and machines for wallet making. (03 hrs.) 56. Pattern making for required components. (03 hrs.) 57. Cut components according to patterns. (04 hrs.) 58. Skiving edge for folding components. (04 hrs.) 59. Prepare components. (03 hrs.) 60. Gluing and assembling components. (04 hrs.) 61. Stitching wallet. (03 hrs.) 62. Trimming and finishing. (03 hrs.)	Measuring tape, cutting knife, steel scale, silver pencil, hammer, folding hammer, scissor, awl, hole punch, press button punch, creaser, swing machine flat bed and post bed. Rampi, skiving machine Work table cutting table (06 hrs.)
Professional Knowledge 18 Hrs		63. Select required material and accessories for ladies clutch purse. (03 hrs.) 64. Prepare required tools equipment and machines for ladies clutch purse. (03 hrs.) 65. Pattern making to required components. (03 hrs.)	Measuring tape, cutting knife, steel scale, silver pencil, hammer, folding hammer, scissor, awl, hole punch, press button punch, creaser, swing machine flat bed and post bed. Rampi, skiving machine Work table cutting table

		66. Cutting components according to pattern. (03 hrs.) 67. Skiving edge for folding components. (03 hrs.) 68. Prepare components, making pockets, fixing zip. (03 hrs.) 69. Gloving and assembling components. (03 hrs.) 70. Stitching. (03 hrs.) 71. Hole punching and buttons fixing by press button punch. (03 hrs.) 72. Trimming and finishing. (03 hrs.)	(06 hrs.)
		73. Select required material and accessories for gents belt. (03 hrs.) 74. Prepare required tools equipment and machines. (03 hrs.) 75. Pattern making to required components. (03 hrs.) 76. Cutting strips for required length and width (pattern). (03 hrs.) 77. Skiving edge for folding components. (03 hrs.) 78. Gloving and assembling strips with reinforcement. (05 hrs.) 79. Stitching belt. (05 hrs.) 80. Punching attach buckle and loops by rewet and rivet punch. (05 hrs.)	Measuring tape, cutting knife, steel scale, silver pencil, hammer, folding hammer, scissor, awl, hole punch, press button punch, creaser, sewing machine flat bed and post bed. Rampi, skiving machine Crew punch. Work table and cutting table (06 hrs.)
Professional Skill 60Hrs.	Identify various substitute materials of leather	81. Practice on use of various substitute materials of leather and method of	Familiarization of different substitute materials of leather -their identification, type,

Professional Knowledge 12 Hrs	and method of applications and their uses.	application. & their uses. (60 hrs.)	characteristics, method of application. & their uses. (12 hrs.)
Professional Skill 120Hrs. Professional Knowledge 24Hrs	Apply method for economical cutting and calculate production cost observing quality control aspect.	82. Economical adjustment of cutting leather and lining for various products. (20 hrs.) 83. Preparation of cost sheet. (20 hrs.) 84. Calculation of consumption and wastage materials. (20 hrs.)	Wastages, its proportions and limits. Waste cutting and their utilization. Different types of treatment for storage. Preservation and storing of raw materials.(12 hrs.)
		85. Quality control and inspection of leather products. (30 hrs.) 86. Practice on costs of finished products and their selling prices, Overhead costs and their distribution. (20 hrs.) 87. Require minimum any leather industry of a testing laboratory is specified. (10 hrs.)	Packing and forwarding of finished products of leather goods items. (12 hrs.)
Professional Skill 60Hrs. Professional Knowledge 12 Hrs	Take care and Maintain tools and equipment of the section observing safety precautions.	88. Familiarization of practical training to be followed, maintenance and handling of tools and equipment of the section. (12 hrs.) 89. Familiar with different machines operation, care and use. (12 hrs.) 90. Identify of tools and equipment as per desired specification for leather goods. (12 hrs.) 91. Identify and carryout maintenance and	Knowledge of Machine, Equipment and power operated machine required for the making of various leather goods products. Knowledge of electrically operated tools.(12 hrs.)

		preventive maintenance of different machines. (12 hrs.) 92. Identify different parts, its function and operation of various types of tools and equipment. (12 hrs.)	
Professional Skill 120Hrs. Professional Knowledge 24Hrs	Identify, operate, troubleshoot and maintain different tools, machines and equipment used for leather goods making.	93. Working Practice on different hand tools used in the shop. (15 hrs.) 94. Application of indenting process of tools from store. (15 hrs.) 95. Familiarization of operating procedure related to different m/cs & equipment. (15 hrs.) 96. Rectification of common machine faults. (15 hrs.) 97. Care and maintenance of hand tools and machines and equipment. (20 hrs.) 98. Safety precautions. Its importance, cleanliness of the shops. (20 hrs.) 99. Sharpening of tools, knives & other cutting tools, method and process of holding the tools. (20 hrs.)	Identification of hand tools used by a trainee in the section, their kinds, uses, names and function, process of holding. Machines and needles employed in general leather work, their nomenclature and description, operational principles and use.(12 hrs.) Special Tools used for leather making, their kinds, uses and materials from which they are made. Their names and functions. Specification of different tools used in leather goods manufacture- their nomenclature and description.(12 hrs.)
Professional Skill 90Hrs. Professional Knowledge 18 Hrs	Select appropriate leather and ornamental materials and prepare various leather goods by using electrical and hand operated machines observing quality parameters.	100. Select tools for leather cutting. (03 hrs.) 101. Prepare and sharpening of tools. (03 hrs.) 102. Marked leather defects and avoid defects. (03 hrs.) 103. Handling of tools. (03 hrs.) 104. Check cut component quality and bundle neatly. (03 hrs.)	Description of various types of machines used for different type of leather sewing. Description of various fittings such as locks, hurdles, caners, rollers, fasteners, hinges, buckles, rivets, etc. Identification of plating and evaluation of their quality and appropriate uses in the

		105. Check and prepare straps cutting machine. (03 hrs.) 106. Make Necessary adjustment in the machine for cutting straps to required width. (03 hrs.) 107. Adjust Guide plate to filed the leather strata. (03 hrs.) 108. Switch on The machine and handle machine by foot accelerator. (03 hrs.) 109. Cut straps and check the quality and prepare bundle. (03 hrs.) 110. Put the scarps paces in the scraps box. (03 hrs.) 111. Check and prepare hydroid clicking press machine. (03 hrs.) 112. Mark the leather defects and rectify the defect. (03 hrs.) 113. Check cutting die. (03 hrs.) 114. Check cutting die adjust and pleased properly before clicking. (03 hrs.) 115. Check quality of clicked components and bundle neatly. (03 hrs.) 116. Put in The scraps piece into the scraps box. (03 hrs.) 117. Identify and Select different ornamental material (03 hrs.) Locks:- 118. Size, shapes and style. (03 hrs.) 119. Selection of leather products life language ,	manufacture of leather goods. Various Ornamental materials and uses. (18 hrs.)
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		molded leather goods , shot case looks, document case looks, camera case looks fancy looks for exclusive leather goods, zip looks, emanative snaps , clip looks. (03 hrs.) Frames:- 120. Prepare and practice of different types of frames. (03 hrs.) 121. Size shape and style and metal like steel brass, silver, plastic. (03 hrs.) 122. Selection of leather products like ladies hand bag, purse, pouch, hand bags. (03 hrs.) Straps fitting:- 123. Practice different size, shapes and styles and metal for straps fitting. (03 hrs.) 124. Size, shapes and styles and metal like steel brass silver, plastic. (03 hrs.) 125. Selection of leather products. (09 hrs.) (a) Ring for fixing handle and shoulder straps. (b) Belt buckles use in Gents belt ladies belt pouch and bags. (c) Roller buckles use in bags school bags and ladies bags. (d) Adjustable buckle use in ladies and gents bags	
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		for lengths shout straps adjusted 126. Prepare and practice different size, shape and style of handle fitting, key case, ladies bags. (03 hrs.) 127. Select and perform different Hinges used in briefcase, cosmetics, jewelry box and wallet passport cover. (03 hrs.) 128. Identify different size and style fasteners rivet, rivet bottoms, eyelets, studs, press bottoms, zip, well crow and cordless. (03 hrs.)	
Professional Skill 60Hrs. Professional Knowledge 12 Hrs	Apply sequence of operation in leather goods productions.	129. Identify the different hand tools. (03 hrs.) 130. Selection of proper tools for operation and precautions in operation. (03 hrs.) 131. Selection of different quality leather, grade, size, color and grain matching. (03 hrs.) 132. Draw and design of making product as per job. (03 hrs.) 133. Making and cutting pattern components upper, lining reinforcement. (05 hrs.) 134. Prepare and practice leather Cutting, lining, reinforcement according pattern. (04hrs.) 135. Check various materials using proper measuring instruments cut by hand	Thronging by hand, types of thronging, designing, methods of coloring, etc. Use of leather thongs in leather goods.(12 hrs.)

		and machine. (04hrs.) 136. Plan and prepare Skiving and splitting necessary component. (04hrs.) 137. Quality checked. (03 hrs.) <u>Assembling Stitching</u> 138. Practice Adhesive application and assembling components on work bench, punching, riveting, button fixing, lining and gusset making, handle making etc. (04hrs.) 139. Identify the different types of Stitching components by machine flat bed and post bed. (03 hrs.) 140. Plan and organize Cleaning stains and spots, creasing by crazing tools. (08 hrs.) 141. Perform Thread trimming, burning and finishing. (08 hrs.) 142. Determine the measuring error. Check quality and plan working compliance with packing. (05hrs.)	
Professional Skill 270Hrs. Professional Knowledge 54Hrs	Identify, operate, troubleshoot and maintain different tools, machines and equipments used for leather goods making.	143. General operation of various make machine working condition timely clean and lubricate the machine and covered after worked. (05 hrs.) 144. Study the construction and operation of various types Swing machine. (05 hrs.) 145. Identify and carry out maintenance and	Chrome leather, suitcase leather, embossed leather, betting leather, Leather for industry Leather goods. General maintenance system of machines, equipments and tools. (06 hrs.)

		preventive maintenance of motor and machines. (05 hrs.) 146. Identify different parts its function and operation of tight clutch at the handle wheel and various types of adjust belt. (05 hrs.) 147. Practice of use different Needle trade breaks, bobining trade breaking and thread loops. (05 hrs.) 148. Check and fault find of machine and use correct pressure foot. (05 hrs.)	
		149. General repairs of different types of leather goods. (08 hrs.) 150. Identify various type repairing like zip and runner, cut size and shape and overlapping allowance. (05 hrs.) 151. Check manufacture defect on the size, shape, patch of machining suitable material according shape and overlapping allowance. (08 hrs.) 152. Plan and prepare the damage in gusset size of leather bag. (10 hrs.) 153. Carryout maintenance of damage in bottom of leather bag. (06 hrs.) 154. Check shoulder straps, D ring support and prepare according D ring size. (15 hrs.)	Commercial calculations cost of finished products and their selling prices. Overhead cost and their distribution over production. Marketing of finished products. Selling methods. (12 hrs.)

		155. Check damage/manufacturer defect handle of travel beg and prepare handle in suitable material according D ring and strips fitted handle by rivet and rivet punch. (08 hrs.)	
		156. Cutting out and sewing holdalls, bedding rolls, valises. (05 hrs.) 157. Selection different types of material required. (05 hrs.) 158. Select and prepare of required tools, equipment and machines and material as per application. (05 hrs.) 159. Identify pattern and required pattern component according samples. (05 hrs.) 160. Identify different cutting leather, lining, reinforcement pattern. (05 hrs.) 161. Practice front side part zip, reinforcement, lining fixing. (05 hrs.) 162. Identify different materials and bag part lining zip runner fixing. (05 hrs.) 163. Plan and prepare fixing tape code on front and back part and marked centre point for balancing. (06hrs.)	Selection of leather for various leather articles, types of leather used for different articles and their characteristics.(24 hrs.)

		164. Practice and prepare zip gusset and continuous gusset with lining. (06hrs.) 165. Identify and fixing D ring on both side of gusset with D ring support. (06hrs.) 166. Plan and prepare fixing gusset on back part and front part of back, machining mark centre balance point. (06hrs.) 167. Prepare solder strips and fixing on D ring adjustable buckle. (10 hrs.) 168. Make trimming. (05 hrs.) 169. Prepare for laptop lining with foam sheet welcrow strips belt and attached on back part. (10 hrs.) 170. Selection of required material and size like 3'*6'. (06hrs.) 171. Identify different Cutting required material according bedding role width, length, height. (05 hrs.) 172. Prepare back part with handle belt loops and belt with rolled buckle and I letting. (10 hrs.) 173. Prepare front part, with flap or zip in middle flap. (05 hrs.) 174. Attached gusset on Back part on marked centered balance notched. (05 hrs.) 175. Attached front on gusset.	
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		Cotton or Nylon belt will used on four side of edges binding of bedding rolls. (05 hrs.)	
		176. Supervision and motivation of trainee for quality control. (05 hrs.) 177. Carryout inspection during manufacturing. (05 hrs.) 178. Analysis for substandard, defect analysis and action about correcting any fault. (05 hrs.) 179. Check dimension, shape and quality of work. (05 hrs.) 180. Check durability of manufacturing product. (05 hrs.) 181. Handling and maintenance of machine properly. The mechanical operation in various stage of leather goods manufacturing also influence the quality these operation include clicking, splitting skewing, straps cutting and variety of machine used to impart certain desirable property. (05 hrs.) 182. Cut accurate reduce in correctly cut components and quality wise. (03 hrs.) 183. Assembling:- inspection and analysis of quality work and take action. (05 hrs.) 184. Used branded quality of	Identification of plating and evaluation of their quality and appropriate uses in the manufacture of leather goods. (12 hrs.)

		fitting, lining and accessory which have long life, smooth working performance, specially fitting must be restart to fading and resting. (05 hrs.) 185. Stitching properly, used matching trades and trades numbers with considerable strength, stitch appearance and stretch length specification. (05 hrs.) 186. Preparing trimming and finishing. (05 hrs.) 187. Checked quality regular starting process from the first operation to finished product the fault between the processes taken to rectify the defect. (05 hrs.) 188. Random checked and checked as per sampling. (02 hrs.)	
Professional Skill 60Hrs. Professional Knowledge 12 Hrs	Identify and use different electrical equipments and perform various processes (hydraulic cutting and clicking, straps cutting, splitting, embossing, cementing, zigzag swing machine and flat bed, post bed stitching machines.)	189. Identify different parts and section of clicking machine. (07 hrs.) 190. Operate hydraulic cutting and clicking machine to produce leather goods. (08 hrs.) 191. Identify different parts and operate strap cutting machine with proper sequence. (07 hrs.) 192. Identify different parts, function and operate splitting machine with	

		proper sequence. (07 hrs.) 193. Identify different parts, function and operate Hydraulic embossing machine with proper sequence. (07 hrs.) 194. Identify different parts, function and operate cementing press machine with proper sequence. (07 hrs.) 195. Identify different parts, function and operate Zig Zag with proper sequence. (10 hrs.) 196. Identify different parts, function and operate bed & post bed stitching machine with proper sequence. (07 hrs.)	
Project Work/ Industrial Visit Broad Area: a) Identify different instrument/equipment specification, control panel/ control operation and internal construction. b) Draw the block diagram of different machine/equipment used in leather goods maker Trade. c) Plan and carryout work of quality control leather products. d) Prepare of cost sheet, calculation of consumption and wastage materials. e) Training on entrepreneur development so that enable the trainees to start his own small scale Industries.			

SYLLABUS FOR CORE SKILLS
1. Employability Skills (Common for all trades) (160Hrs.)

Learning outcomes, assessment criteria, syllabus and Tool List of Core Skills subjects which is common for a group of trades, provided separately in www.bharatskills.gov.in

List of Tools & Equipment			
LEATHER GOODS MAKER (for batch of 20 Candidates)			
S No.	Name of the Tools and Equipment	Specification	Quantity
A. TRAINEES TOOL KIT			
1.	Polypropylene board	40 x 40 x 10 cm	21 nos.
2.	Wooden block	30 x 10 x 10 cm	21 nos.
3.	Wooden clamp	standard size	21 nos.
4.	Set square		21 nos.
5.	Compass		21 nos.
6.	Divider	20 mm	21 nos.
7.	Scissor	150 mm	21 nos.
8.	Scissor	300 mm	21 nos.
9.	Scissors for cutting zig - zig	200 mm	21 nos.
10.	Sniper	6"	21 nos.
11.	Hammer Big		21 nos.
12.	Hammer Small		21 nos.
13.	Ladies magnetic hammer	10 cm.	21 nos.
14.	Mallet		21 nos.
15.	Pincers	10 cm	21 nos.
16.	Iron creaser doubles		21 nos.
17.	Wooden creaser single		21 nos.
18.	Wooden creaser doubles		21 nos.
19.	Rampis		21 nos.
20.	Curved rampis		21 nos.
21.	Blunt awls		21 nos.
22.	Stitch marking awls		21 nos.
23.	Scriber		21 nos.
24.	Punches	1, 3, 4	21 nos.
B. SHOP TOOLS & EQUIPMENT			
25.	Punch set	no. 1 to 10	07 nos.
26.	Revolving punches		02 set
27.	Punch (for punching holes in metal sheet / strip)	2 mm	07 nos.
28.	File flat rough	90 mm	07 nos.

29.	Stitching comb - assorted	1, 2 and 3 mm	07 nos.
30.	Cutting pliers	150 mm	07 nos.
31.	Set of screw drivers		02 set
32.	Philips screw driver set		02 set
33.	Eye let setter with die		07 nos.
34.	Measuring tape (Cotton / plastic) -	2 meter long	07 nos.
35.	Gultarashrampi		07 nos.
36.	Half moon shape rampi		07 nos.
37.	Awls		1 nos.
38.	Steel clamp rule	300 mm	07 nos.
39.	Steel clamp rule	600 mm	07 nos.
40.	Pincers	25 cm	01 nos.
41.	Strap cutter		07 nos.
42.	Clicking Knives		07 nos.
43.	Designer Knives		07 nos.
44.	Sniper	2" - 3"	07 nos.
45.	Beading hammer (folding hammer)		07 nos.
46.	Magnetic Hammer	25 cm.	01 nos.
47.	Divider with scale	20 cm.	07 nos.
48.	Leather thickness measuring Gauge (Micro)		04nos.
49.	Bench vice	0 - 100 mm	04nos.
50.	Flat chisel	20 mm nose width	04nos.
51.	Horns biyongi		04nos.
52.	Heel iron Electric		02 no.
53.	French curve set		02 set
54.	Modelling tool set (Tracer & modeler bewal& tool, porker maker)		02 set
55.	Glue container and glue brushes		12 nos. each
56.	Press (Iron)		02 no.
57.	Maintenance tool		02 set

C. LIST OF GENERAL MACHINERY

58.	Card board cutting machine capacity	900 mm (Power Operated)	01 no.
59.	Sewing machine tradle operated Flat bed (Single needle capacity) Power operated		07 nos.
60.	Sewing machine power operated heavy duty		01 no.
61.	Splitting machine upper		01 no.
62.	Stamping die machine		01 no.

63.	Stamping machine table type		01 no.
64.	Cylinder bed sewing machine		01 no.
65.	Post bed sewing machine		01 no.
66.	Zig - Zag stitching machine		01 no.
67.	Skiving machine		01 no.
68.	Strap cutting machine		01 no.
69.	Edge folding machine		01 no.
70.	Roller		01 no.
71.	Splitting machine bottom		01 no.
72.	Hand eye letting machine		01 no.
73.	Bottom setting machine		01 no.
74.	Inter lock machine		01 no.
75.	Edge colouring machine		01 no.
76.	Clicking machine		01 no.
D. SHOP FLOOR FURNITURE AND MATERIALS			
77.	Stools wooden high	450 mm	21 nos.
78.	Working desk		21 nos.
79.	Working benches		07 nos.
80.	Almirah		02 nos.
81.	Show case		01 no.
82.	Instructors desk and chair		01 set
Note: - 1. All the tools and equipment are to be procured as per BIS specification. 2. Internet facility is desired to be provided in the class room.			

ANNEXURE – II

The DGT sincerely acknowledges contributions of the Industries, State Directorates, Trade Experts, Domain Experts and all others who contributed in revising the curriculum. Special acknowledgement is extended by DGT to the following expert members who had contributed immensely in this curriculum.

List of Expert Members attended to finalize the course curriculum of Leather Goods Maker Trade			
S No.	Name & Designation Sh./Mr./Ms.	Organization	Remarks
1.	Deepankar Mallick, Director of Training	DGE&T, New Delhi	Chairman
2.	Sukhdev Singh, Joint Director	ATI- Kanpur	Member
3.	P.N. Yadav, Dy. Director	ATI- Kanpur	Member
4.	S.K. Singh, Principal	Government. Leather Institute Kanpur	Member
5.	Irsad Mirza, Proprietor	Mirza International, Kanpur	Member
6.	D.N. Swami, Lecturer	Govt. Leather Institute Kanpur	Member
7.	Naresh Kumar, Lecturer	Govt. Leather Institute Kanpur	Member
8.	H.S. Nigam, V.I.	ATI Kanpur	Member
9.	P.K. Bhattacharya, Scientist	Central Leather	Member
10.	Suman Chatterjee, lecturer	H.B.T.I. Kanpur	Member
11.	Col. S. Haque, Principal	Mirza Foundation	Member
12.	Suresh Kumar, Technician	Mirza Foundation	Member
13.	Suhail Ahmad, Supervisor	Mirza Foundation	Member
14.	Satish Kumar, Senior supervisor	International Ltd.	Member
15.	Abhinandan Kumar, Scientist In Charge	CSIR-Central Leather Research Institute, Ahmedabad	Member
List of members attended the Workshop to finalize the syllabi of existing CTS into NSQF compliance			
1.	S.A. Pandav, Regional Dy. Director	DET, Gujarat	Chairman
2.	L.K. Mukherjee, Deputy Director of Training	CSTARI, Kolkata-91	Member
3.	Ashoke Rathi, Deputy Director of Training	ATI-EPI, Dehradun	Member
4.	N. Nath, Assistant Director of Training	CSTARI, Kolkata-91	Member

5.	S. Srinivasu, Assistant Director of Training	ATI-EPI, Hyderabad-13	Member
6.	Sharanappa, Assistant Director of Training	ATI-EPI, Hyderabad-13	Member
7.	RamakrishneGowda, Assistant Director of Training	FTI, Bangalore	Member
8.	Goutam Das Modak, Assistant Director of Trg./Principal	RVTI, Kolkata-91	Member
9.	Venketesh. Ch., Principal	Govt. ITI, Dollygunj, Andaman & Nicobar Island	Member
10.	A.K. Ghate, Training Officer	ATI, Mumbai	Member
11.	V.B. Zumbre, Training Officer	ATI, Mumbai	Member
12.	P.M. Radhakrishnapillai, Training Officer	CTI, Chennai-32	Member
13.	A.Jayaraman, Training officer	CTI Chennai-32,	Member
14.	S. Bandyopadhyay, Training Officer	ATI, Kanpur	Member
15.	SuriyaKumari .K, Training Officer	RVTI, Kolkata-91	Member
16.	R.K. Bhattacharyya, Training Officer	RVTI, Trivandrum	Member
17.	Vijay Kumar, Training Officer	ATI, Ludhiana	Member
18.	Anil Kumar, Training Officer	ATI, Ludhiana	Member
19.	Sunil M.K. Training Officer	ATI, Kolkata	Member
20.	Devender, Training Officer	ATI, Kolkata	Member
21.	R. N. Manna, Training Officer	CSTARI, Kolkata-91	Member
22.	Mrs. S. Das, Training Officer	CSTARI, Kolkata-91	Member
23.	P.K. Bairagi, Training Officer	CSTARI, Kolkata-91	Co-ordinator
24.	JyotiBalwani, Training Officer	RVTI, Kolkata-91	Member
25.	Pragna H. Ravat, Training Officer	RVTI, Kolkata-91	Member
26.	SarbojitNeogi, Vocational Instructor	RVTI, Kolkata-91	Member
27.	Nilotpalsaha, Vocational Instructor	I.T.I., Berhampore, Murshidabad, (W.B.)	Member
28.	Vijay Kumar, Data Entry Operator	RVTI, Kolkata-91	Member

ABBREVIATIONS

CTS	Craftsmen Training Scheme
ATS	Apprenticeship Training Scheme
CITS	Craft Instructor Training Scheme
DGT	Directorate General of Training
MSDE	Ministry of Skill Development and Entrepreneurship
NTC	National Trade Certificate
NAC	National Apprenticeship Certificate
NCIC	National Craft Instructor Certificate
LD	Locomotor Disability
CP	Cerebral Palsy
MD	Multiple Disabilities
LV	Low Vision
HH	Hard of Hearing
ID	Intellectual Disabilities
LC	Leprosy Cured
SLD	Specific Learning Disabilities
DW	Dwarfism
MI	Mental Illness
AA	Acid Attack
PwD	Person with disabilities

