

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

COMPETENCY BASED CURRICULUM

FOOTWEAR MAKER

(Duration: One Year) Revised in July 2022

CRAFTSMEN TRAINING SCHEME (CTS) NSQF LEVEL- 3



SECTOR – LEATHER



FOOTWEAR MAKER

(Non-Engineering Trade)

(Revised in July 2022)

Version: 2.0

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 3

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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During the one-year duration of "Footwear 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 identify different human feet and defects of unfit shoes and practice on size system& last. They will be able to prepare different types of men form and computer aided design. They can also identify source of leathers, their characteristics and practice on various components, direction of cutting and sharpening of tools. They will practice various types of leather measurement and cutting by hand and machine. The trainees will also acquire the knowledge of various grinding and stitching practices. The trainee will also acquire the knowledge of designing, pattern cutting and template making of different types of footwear.

The candidate will be able to perform different types of application like closing, skiving, folding and identify types of adhesives & their applications. They can identify different sorting and matching cut components, bottom components. They will be able to prepare toe and counter stiffer, drafting and lasting. They will also prepare and practice insole, sole attaching, sole stitching, welt stitching, bottom filling, heal fixing and finishing. The trainee will prepare different types of shoes applying latest fashion and will be able to identify defects present in the final product. The trainees will perform leather lining and they can calculate material consumed in making footwear. They will be able to apply suitable methods for reduction of wastage. They can test and assess footwear. They will estimate cost of making product and quality assessment of footwear as per BS, DIN or ISO standard.



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.

'Footwear 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 Footwear Maker and will progress further as Senior Footwear Maker, Supervisor and can rise up to the level of Manager.
- 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)	840
2.	Professional Knowledge (Trade Theory)	240
3.	Employability Skills	120
	Total	1200

Every year 150 hours of mandatory OJT (On the Job Training) at nearby industry, wherever not available then group project is mandatory.

4	On the Job Training (OJT)/ Group Project	150
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Trainees of one-year or two-year trade can also opt for optional courses of up to 240 hours in each year for 10th/ 12th class certificate along with ITI certification or add on short term courses.

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%.

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 some of 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
- Computer based multiple choice question examination
- Practical Examination

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 for formative assessment:

Performance Level	Evidence			
(a) Marks in the range of 60%-75% to be allotted	during assessment			
For performance in this grade, the candidate	• Demonstration of good skills and			
should produce work which demonstrates	accuracy in the field of work/			
attainment of an acceptable standard of	assignments.			



craftsmanship	with	occasional	guidance,	and
due regard for	safety	procedure:	s and pract	ices

- A fairly good level of neatness and consistency to accomplish job activities.
- Occasional support in completing the task/job.

(b) Marks 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 little guidance, and regard for safety procedures and practices

- Good skill levels and accuracy in the field of work/ assignments.
- A good level of neatness and consistency to accomplish job activities.
- Little support in completing the task/job.

(c) Marks 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.



Shoemaker, Orthopaedic; makes complete footwear, mainly of leather, for customers with foot or leg deformities. Studies drawings and other specifications or takes necessary measurements to make footwear according to customer's need. Selects leather and gets special last made to suit necessity if required. Prepares patterns, chooses materials and cuts out parts by hand as per patterns made. Thins edges of parts of upper by cutting or shaving. Presses and bends parts into shape, glues lining to leather parts and sews them together. Punches eyelet holes and inserts eyelets. Tacks insole to last, pulls upper on to last to give it required shape and checks alignment of toe and heel of upper. Builds up sole where required, folds bottom of upper over edge of insole or built-up middle sole, fixes them together and fixes outer sole to upper. Builds up and fixes heel. Trims and smooths where necessary, applies inked wax stain or paint where required, inserts thin inner sole and gives final finish. May do ornamental nicking. May take plaster casts of deformed leg or foot and prepare drawings. May use prepared uppers with necessary modifications.

Shoemaker, Hand; Shoe Maker, General makes complete shoe or other footwear mainly of leather for each individual customer. Takes measurement of customer's feet and studies design of shoe or footwear to be made. Selects and estimates material required for making different components such as upper, lining, sole, etc. Marks leather components with patterns and cuts them with knife (rapi) ensuring accuracy and minimum wastage. Skives leather edges with skiving knife to reduce thickness of different sections to be joined together. Prepares and carefully applies cementing solution by brush at skived portion for joining, taking care not to splash solution on leather surface while joining. Glues lining to leather parts and sews sole, upper and other components by hand or sewing machine. Punches eyelet holes and inserts eyelets in position, for lacing, by hand or machine. Rolls and pulls upper on last, nails it, keeps perfect alignment of toe and heel and shapes it according to pattern by light hammering and stretching. Sorts out twists and applies wax on thread to make it stronger. Stitches sole and other portions using awl and waxes thread. Cuts and prepares heel and attaches it to sole by nailing. Trims and finishes edges of shoe using knife (rapi) and glass piece. Cuts and fixes thin inner-sole with glue. Applies colour or polish and gives finishing touches to shoes. Checks each pair of completed shoe for uniformity rectifies defects if any and puts them on lasts for retention of shape and form. May repair footwear.

Reference NCO-2015:

- (i) 7536.0200 Shoemaker, Orthopaedic
- (ii) 7536.0100 Shoemaker, Hand

Reference NOS: -- LSS/N8601, LSS/N2101, LSS/Q2102, LSS/N2103, LSS/N0901, LSS/Q1801, LSS/N5312, LSS/N2303, LSS/N2304, LSS/N5805, LSS/N2202, LSS/N2203, LSS/Q1801, LSS/Q2102, LSS/N2103, LSS/N2202, LSS/N2606, LSS/N2606, LSS/N2405, LSS/N2406, LSS/N2701, LSS/N2703, LSS/N7501, LSS/N3303, LSS/N3303, LSS/N1002, LSS/N1003, LSS/N1004, LSS/N3406.





Naı	me of the Trade	FOOTWEAR MAKER			
Trade Code		DGT/1091			
NC	O - 2015	7536.0200, 7536.0100			
Ma	pped NOS	LSS/N8601, LSS/N2101, LSS/Q2102, LSS/N2103, LSS/N0901, LSS/Q1801, LSS/N5312, LSS/N2303, LSS/N2304, LSS/N5805, LSS/N2202, LSS/N2203, LSS/Q1801, LSS/Q2102, LSS/N2103, LSS/N2202, LSS/N2607, LSS/N2606, LSS/N2405, LSS/N2406, LSS/N2701, LSS/N2703, LSS/N7501, LSS/N3303, LSS/N3303, LSS/N1002, LSS/N1003, LSS/N1004, LSS/N3406.			
NS	QF Level	Level-3			
	ration of Craftsmen iining	One Year (1200 hours + 150 hours OJT/Group Project)			
Ent	try Qualification	Passed 8 th Class Examination			
Miı	nimum Age	14 years as on first day of academic session.			
Elig	gibility for PwD	LD, CP, LC, DW, AA, LV, DEAF, HH, AUTISM, ID, SLD			
	it Strength (No. of Ident)	20 (There is no separate provision of supernumerary seats)			
Spa	ace Norms	72 Sq. m			
Pov	wer Norms	4 KW			
Ins	tructors Qualification f	or:			
(i)	Footwear Maker Trade	B.Voc/Degree in Leather Technology from UGC recognized university with one year experience in the relevant field. OR			
		Three year Diploma 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 "Footwear Maker" with three-year experience in the relevant field.			
		Essential Qualification: Relevant Regular / RPL variants of National Craft Instructor Certificate (NCIC) under DGT.			
		<u>Note:</u> - 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.			
(ii)	Employability Skill	MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years			



	experience with short term ToT Course in Employability Skills.		
	(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.		
(iii) Minimum Age for	21 Years		
Instructor			
List of Tools and Equipment	As per Annexure – I		



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

- 1. Assist in exigencies and carryout elementary first aid during emergencies following safety precautions. (NOS: LSS/N8601)
- Identify different human foot and defects of unfit shoes & practice on size system & last. (NOS: LSS/N2101)
- Prepare different types of mean form and computer aided design. (NOS: LSS/Q2102, LSS/N2103)
- 4. Identify and use of different tools and equipments and perform various process. (Soaking, fleshing, draining and sammying, splitting, buffing etc.) (NOS: LSS/N0901)
- 5. Care and maintenance of tools equipments and machines observing safety precautions. (NOS: LSS/Q1801)
- 6. Identify source of leathers, their characteristics and practice on various component direction of cutting & sharpening of tools. (NOS: LSS/N5312)
- 7. Perform various types of leather measurement and Cutting by hand & machine. (NOS: LSS/N2303, LSS/N2304)
- 8. Carryout various grinding & stitching methods. (NOS: LSS/N5805, LSS/N2202, LSS/N2203)
- 9. Identify, operate, troubleshoot & maintain different equipment used in footwear making. (NOS: LSS/Q1801)
- 10. Designing, pattern cutting and template making of different types of footwear. (NOS: LSS/Q2102, LSS/N2103)
- 11. Apply method of Economical cutting of components and Stitch by hand and machine to produce footwear. (NOS: LSS/N2202)
- 12. Perform different types of application like closing, skiving, folding and identify different types of adhesives & their application. (NOS: LSS/N2607, LSS/N2606, LSS/N2405, LSS/N2406)
- 13. Identify different sorting & matching cut components, bottom components, prepare toe & counter stiffer, drafting & lasting. (NOS: LSS/N2701, LSS/N2703)
- 14. Identify various types of moulding machine their parts and section. (NOS: LSS/N7501)
- 15. Prepare & perform insole making, drafting, lasting, sole attaching, sole stitching, welt stitching, bottom filling, heal fixing & finishing. (NOS: LSS/N3303)
- 16. Prepare different type of boots applying latest fashion and check defects of finished products. (NOS: LSS/N3303)
- 17. Calculate material consumption and reduction of wastage, Testing of footwear and their assessment. (NOS: LSS/N1002, LSS/N1003, LSS/N1004)
- 18. Calculate cost of production and quality assessment of footwear products. (NOS: LSS/N3406)



	LEARNING OUTCOMES	ASSESSMENT CRITERIA
1.	Assist in exigencies and carryout elementary first	Identify different types of firefighting equipment and training of first aid methods.
	aid during emergencies	Perform first aid treatment.
	following safety	Identify of safety signs for danger, warning caution and safety
	precautions. (NOS:	measure.
	LSS/N8601)	Follow precaution measures while a fitting job.
2.	Identify different human	Identify functions of bones, arches, joints ligament problems
	foot and defects of unfit	Conduct measurement of foot (infant to adult) according to various
	shoes & practice on size	sizing systems.
	system & last. (NOS:	Identify Biometry and biomechanics of human foot and leg.
	LSS/N2101)	Measure Wooden last based on material, design, size and uses
		Measure body weight distribution over different segments of feet
		during different phase of walking
3.	Prepare different types	Make and understand different types of computers and aided
	of mean form and	design.
	computer aided design.	Perform area measurement of patterns and leather based on
	(NOS: LSS/Q2102,	metric system.
	LSS/N2103)	Prepare different types of mean forms.
		Perform different types of Pattern cutting.
4.	Identify and use of	Identify Tools, equipment and machinery used in leather
	different tools and	processing and product making.
	equipments and perform	Differentiate leather and non- leather fabrics used for shoe
	various process. (soaking,	making.
	fleshing, draining and	Identify sequence of pertaining operations, the chemicals used and
	sammying, splitting,	their purposes.
	buffing etc.) (NOS:	Select tanning process based on the final properties needed for
	LSS/N0901)	upper and sole.
		Choose post tanning chemicals based on the final performance
		properties for upper and lining
		Perform Finishing of leather depending upon the grain quality.



5.	Care and maintenance of	Identify different and tools and their maintenance procedure.
	tools equipments and	Identify different types of machines and their safety precautions.
	machines observing	Study the construction operation and use of machines.
	safety precautions. (NOS:	Identify different parts, section and its function of machines.
	LSS/Q1801)	Identify and carry out maintenance and preventive maintenance of
		machines.
6.	Identify source of	Identify sources of different types of upper leathers with their
	leathers, their	characteristics.
	characteristics and	Verify properties of different types of coated fabrics.
	practice on various	Demonstrate holding of various tools and sharpening of scissors
	component direction of	and knives
	cutting & sharpening of	Maintain and perform servicing of precision measuring
	tools. (NOS: LSS/N5312)	instruments.
		Perform component cutting from suitable areas.
7.	Perform various types of	Identify different parts of a shoe and cut components by hand or
	leather measurement	by using clicking press.
	and Cutting by hand &	Sort leather by identifying common defects.
	machine. (NOS:	Identify different parts of leather cutting machines and perform
	LSS/N2303, LSS/N2304)	maintenance/preventive maintenance.
		Overhaul check, fault find, repair various types of machines.
		Measure the leather hide and skins by applying different methods.
8.	Carryout various grinding	Perform different types of stitching to join the upper and bottom
	& stitching methods.	part of shoes by using proper size of needles.
	(NOS: LSS/N5805,	Identify and select different types of grinding materials used in
	LSS/N2202, LSS/N2203)	leather & rubber.
		Identify different types& size of needle and machines.
9.	Identify, operate,	Operate/ Maintain/Troubleshoot various footwear machines.
	troubleshoot & maintain	Identify the tools and equipments to perform the job with due care
	different equipment used	and safety.
	in footwear making.	Identify carious input and output sockets and connectors of the
	(NOS: LSS/Q1801)	given machines.
		Identify major section of panel board/ components/ parts of
		machines.
		Dismantle the given machines and find major sections.



		Identify front panel control & indicators of machines.
		Select and verify characteristic of machines.
		Check the speed of response machines.
10.	Designing, pattern	Draw sketches of different basic styles of footwear.
	cutting and template	Perform pattern cutting and template making for different types of
	making of different types	footwear.
	of footwear. (NOS:	Identify of basic design of different types of shoes.
	LSS/Q2102, LSS/N2103)	Construct and design of different types of boot and safety shoes.
		Construct and design of different type styles/fashion shoes.
11.	Apply method of	Identify different parts of the shoe components viz. upper, lining,
	Economical cutting of	insole, stiffener etc. and perform economical cutting of these
	components and Stitch	components.
	by hand and machine to	Identify different types of clicking of upper components and
	produce footwear. (NOS:	linings.
	LSS/N2202)	Prepare and practice of economical cutting of shoes and top
	. ,	pieces.
		Identify different parts of components upper lining, tootles,
		stiffeners, and sock lining, etc.
12.	Perform different types	Perform skiving/ folding/closing etc. for making upper
	of application like	Identify different types of adhesives with their application.
	closing, skiving, folding	Prepare different types edge treatment.
	and identify different	Identify color marking the edge of the component and stamping
	types of adhesives &	machine using a metal foil.
	their application. (NOS:	Prepare Surface and demonstrate roughening of the surfaces.
	LSS/N2607, LSS/N2606,	rrepare surface and demonstrate roughening of the surfaces.
	LSS/N2405, LSS/N2406)	
13.	Identify different sorting	Sort and match cut components of footwear.
	& matching cut	Prepare toe and counter stiffeners.
	components, bottom	Prepare& perform different types of drafting and lasting.
	components, prepare toe	Prepare welted construction and operation for lasting the upper.
	& counter stiffer, drafting	The part of the appearance and operation to the appearance appearance appearance appearance appearance appearance appearance and appearance app
	•	
	& lasting. (NOS:	



14.	Identify various types of	Identify various moulding machines used in footwear making along		
	moulding machine their	with their parts and section.		
	parts and section. (NOS:	Check the accuracy precession sensitivity of molding machines.		
	LSS/N7501)	Check the speed of response molding machines.		
		Identify and carry out maintenance and preventive maintenance.		
15.	Prepare & perform Insole	Perform Drafting, lasting, sole attaching, sole stitching, welt		
	making, drafting, lasting,	stitching, bottom filling, heal fixing and finishing of shoe.		
	sole attaching, sole	Prepare manufacture of molded shoes and back part molding.		
	stitching, welt stitching,	Prepare toe puff attachment and toe puff conditioning.		
	bottom filling, heal fixing	Identify various part and section of pulling and toe lasting machine.		
	& finishing. (NOS:	Identify various parts and section of sole stitching machine.		
	LSS/N3303)	Select and verify characteristics of universal testing machine.		
16.	Prepare different type of	Prepare different types of shoes applying latest fashion.		
	boots applying latest	Identify defects present in the final product and perform suitable		
	fashion and check	finishing.		
	defects of finished	Identify and repair boots and shoes half soling, healing, residing.		
	products. (NOS:	Construct industrial and winter boots and design different sizes		
	LSS/N3303)	with safety features.		
		Check manufacturing defect on the shoes using test method by		
		machine.		
17.	Calculate material	Calculate leather, lining and other materials consumed in making		
	consumption and	footwear.		
	reduction of wastage,	Select suitable methods for reduction of wastes.		
	Testing of footwear and	Test and assess footwear.		
	their assessment. (NOS:	Identify length and thickness of the raw material sheet.		
	LSS/N1002, LSS/N1003,	Identify construction of materials and reduction of wastage.		
	LSS/N1004)			
18.	Calculate cost of	Calculate cost of making product.		
	production and quality	Perform Quality assessment of footwear as per BS, DIN or ISO		
	assessment of footwear	standards		
	products. (NOS:	Identify testing equipments and test methods developed for		
	LSS/N3406)	different styles and design of footwear.		
		Test and assess quality.		





	SYLLABUS FOR FOOTWEAR MAKER TRADE				
DURATION: ONE YEAR					
Duration	Reference Learning Outcome		Professional Skills (Trade Practical) With Indicative Hours	Professional Knowledge (Trade Theory)	
Professional	Assist in exigencies	1.	Introduction of trade skill	Familiarization with the	
Skill 63 Hrs;	and carryout		and work application. (03	working of Industrial training	
	elementary first		hrs.)	Institute system.	
Professional	aid during	2.	Familiarization with the	Importance of safety and	
Knowledge	emergencies		institute and safety attitude	precautions to be taken in the	
18 Hrs	following safety		development of the trainee	industry and shop floor.	
	precautions.		by the educating them to	Introduction to First Aid.	
	(MAPPED NOS:		use personal protective	Importance of housekeeping &	
	LSS/N8601)		equipments. (03 hrs.)	good shop floor practices.	
		3.	Safe disposal of waste	Occupational Safety and	
			materials like cotton waste,	Health:	
			grinding materials and	Health, Safety and Environment	
			leather cutting by hand	guidelines, legislations &	
			machine. (04 hrs.)	regulations as applicable. (06	
		4.	Hazard identification and	Hrs)	
			avoidance. (03 hrs.)		
		5.	Preventive measures for		
			electrical accidents & steps		
			to be taken in such		
			accidents. (03 hrs.)		
		6.	Importance of trade		
			training, list of tools &		
			machinery used in the		
			trade. (03 hrs.)		
		7.	Safe use of tools and		
			equipments used in the		
			trade. (03 hrs.)		
		8.	Familiarization with the	Introduction to the trade.	
			Institute. (02 hrs.)	Importance of the trade in the	
		9.	Make the trainees familiar	development of the industrial	
			with the shop discipline,	economy of the country.	
			layout of the shop. (03 hrs.)	Knowledge of General Safety,	



		10. Identify different types of	Occupational health and
		hand tools. (03 hrs.)	hygiene.
		11. Selection of proper tools	
		for operation and	Recreational and medical
		precautions in operation.	facilities and extracurricular
		(03 hrs.)	activities of the Institute (All
		12. Care and maintenance of	necessary guidance to be
		trade tools. (03 hrs.)	provided to the new comers to
		13. Identify layout of the	become familiar with the
		machinery, tool &	working of the Industrial
		equipment, etc. installed in	Training Institute system
		the shop. (03 hrs.)	including stores procedures).
		14. Practice different types of	(06 Hrs)
		tools specification, size and	
		symbol while working in	
		fitting job. (03 hrs.)	
		15. Type of practical training to	
		be followed, maintenance	
		and handling of tools and	
		equipment of the section.	
		(02 hrs.)	
		16. Practice on safety	Knowledge of Safety
		precautions including	precautions. Elementary First
		firefighting equipments,	Aid and treatment. Knowledge
		Accidents, First Aid practice	of firefighting appliances. (06
		and treatment. (06 hrs.)	Hrs)
		17. First aid method and basic	
		training. (04 hrs.)	
		18. Identification of safety	
		signs for danger, warning	
		caution & personal safety	
		message. (04 hrs.)	
		19. Use fire extinguishers. (03	
		hrs.)	
		20. Practice and understand	
		precaution to be followed	
		while working in fitting	
		jobs. (03 hrs.)	
Professional	Identify different	21. Identify function of bones,	Anatomy of Human foot:-



Skill 42 Hrs;	human foot and	Arches, Joints ligament	Name of bones, Arches, Joints
	defects of unfit	problems in human. (04	ligament, problems in human
Professional	shoes & practice	hrs.)	and measurement of human
Knowledge	on size system &	22. Practice Measurement of	foot.(06 Hrs)
12 Hrs	last. (MAPPED	human foot. (03 hrs.)	
	NOS: LSS/N2101)	23. Identify biometry of human	
		foot and leg. (03 hrs.)	
		24. Identify biomechanics of	
		human foot and leg. (03	
		hrs.)	
		25. Identify different types of	
		systems and fitting system.	
		(03 hrs.)	
		26. Identify size system by foot	
		length and foot width	
		system. (04 hrs.)	
		27. Identify different types of	
		sizes and inch (infant to	
		adult boys and girls). (03	
		hrs.)	
		28. Practice on wooden last	Wooden last & its measures:-
		and measurement on the	Classification on basis of
		basis of material, design,	material, design, size and uses.
		size and uses. (05 hrs.)	(06 Hrs)
		29. Identify human foot and	
		last. (03 hrs.)	
		30. Materials used for last	
		manufacture wooden,	
		metal and plastic. (04 hrs.)	
		31. Identify different types of	
		human foot and last. (03	
		hrs.)	
		32. Measure body weight	
		distribution (o/o) over	
		different segments of feet	
		during different phases of	
		walking. (04 hrs.)	
Professional Skill 21 Hrs;	Prepare different types of mean		Measurement - its principles and connections as applicable



	form and	assessing of size, making of	to footwear -Importance of
Professional	computer aided	"Mean" form and	metric system of measurement,
Knowledge	design. (MAPPED	standards. (03 hrs.)	Area measurement of leather.
06 Hrs	NOS: LSS/Q2102,	34. Perform pattern cutting.	Area measurement of patterns,
	LSS/N2103)	(06 hrs.)	weights and measures. (06 Hrs)
		35. Make different types of	
		process mean form, bottom	
		shape or insole shape,	
		slotted form, shell form	
		shoe standard for men. (06	
		hrs.)	
		36. Make computer aided	
		design. (06 hrs.)	
Professional	Identify and use of	37. Identification and	Hand tools used by a trainee in
Skill 42 Hrs;	different tools and	application of different	the section, their kinds, uses,
	equipments and	hand tools used in the shop	names and function, process of
Professional	perform various	indenting of tools from	holding. Machines employed in
Knowledge	process. (soaking,	store. (08 hrs.)	general footwear makers'
12 Hrs	fleshing, draining	38. Identify different types of	shops, their nomenclature and
	and sammying,	footwear raw-materials –	description, operational
	splitting, buffing	leather and synthetic or	principles and use. (12 Hrs)
	etc.) (MAPPED	artificial leather. (04 hrs.)	
	NOS: LSS/N0901)	39. Process of soaking, fleshing	
		and unhairing, demining,	
		bating, picking and tanning.	
		(10 hrs.)	
		40. Processes of draining and	
		sammying, splitting,	
		retanning/ dyeing/ fat	
		liquoring, draining and	
		setting, drying conditioning	
		staking draying and	
		flattening buffing. (10 hrs.)	
		41. Perform leather finishing,	
		aniline finish, semi aniline	
		finish, resin finish,	
		cellulose/ lacquer finishes.	
		(10 hrs.)	
Professional	Care and	42. Care and maintenance of	Common hand tools used by a



Skill 21 Hrs;	maintenance of	hand tools and machines.	Footwear maker. Their kinds,
	tools equipments	Safety precautions. (04	uses and materials from which
Professional	and machines	hrs.)	they are made. Their names
Knowledge	observing safety	43. Its importance, cleanliness	and functions. (06 Hrs)
06 Hrs)	precautions.	of the shops. (02 hrs.)	
	(MAPPED NOS:	44. Service and calibrate	
	LSS/Q1801)	various types of machines/	
		instruments. (04 hrs.)	
		45. Identify and carry out	
		maintenance and	
		preventive maintenance of	
		different machines. (04	
		hrs.)	
		46. Study the construction	
		operation and use of	
		machines/ instruments. (04	
		hrs.)	
		47. Identify different parts/	
		section its function	
		&operation of machines/	
		instruments. (03 hrs.)	
Professional	Identify source of	48. Practice Sharpening of	Specification of different tools
Skill 42 Hrs;	leathers, their	tools, scissors, knives and	used in footwear manufacture -
	characteristics and	other cutting tools. (03	their nomenclature and
Professional	practice on	hrs.)	description. Sharpening of
Knowledge	various	49. Identify and apply various	tools and scissors, knives, awls
12 Hrs	component	method and process of	by hand and machines. (12Hrs)
	direction of	holding the tools. (04 hrs.)	
	cutting &	50. Identify Sources of leather	
	sharpening of	and their characteristic –	
	tools. (MAPPED	calf leather, hides L, kid L,	
	NOS: LSS/N5312)	Goat skins L, Sheep skin.	
		(06 hrs.)	
		51. Verify properties of	
		Different types of coated	
		fabrics – PVC coated	
		fabrics, direct coating,	
		transfer coating,	
		Polyurethane coated	



		fabrics. (08 hrs.)	
		52. Carry out maintenance,	
		servicing and tolerances	
		precession measuring	
		instruments. (05 hrs.)	
		53. Perform quality thickness	
		are obtained in uniform	
		colours in a wide range. (05	
		hrs.)	
		54. Practice on various	
		supplied in rolls,	
		multiplayer cutting using a	
		beam clicking press is	
		feasible. (06 hrs.)	
		55. Prepare and practice on	
		various component	
		direction of cutting. (05	
		hrs.)	
Professional	Perform various	56. Identify different parts, its	Stores such as Leather, rubber
Skill 42 Hrs;	types of leather	function and operation of	soles, substitute materials such
,	measurement and	leather cutting machines.	as synthetic rubber, polyvinyl
Professional	Cutting by hand &	(02 hrs.)	cloth, polyurethane,
Knowledge	machine.	57. Identify the machine	thermoplastic rubber. (12 Hrs)
12 Hrs	(MAPPED NOS:	/instrument specifications.	(==,
	LSS/N2303,	(02 hrs.)	
	LSS/N2304)	58. Carry out maintenance and	
	,	preventive maintenance.	
		(06 hrs.)	
		59. Overhaul, check, fault find,	
		repair various type manual	
		and auto machines/	
		instruments used in leather	
		cutting or clicking. (05 hrs.)	
		60. Identify different parts of	
		shoe, as components viz.	
		uppers, linings, insoles,	
		soles etc. (03 hrs.)	
		61. Practice various clicking	
		core cutting methods viz	
		J	



		manual, press cutting, hand clicking, machine clicking, cutting knives and press knives. (05 hrs.) 62. Practice on Leather Cutting by hand and machine. (04 hrs.) 63. Measure the leather-hides and skins by applying different methods. (04 hrs.) 64. Check the defect in hide and skins & common defects in hide and skins. (06 hrs.) 65. Select and verify leather sorting. (02 hrs.) 66. Draw a sketch of free hand drawing tools and block diagram of machine. (03 hrs.)	
Professional Skill 42 Hrs; Professional Knowledge 12 Hrs	Carryout various Grinding & stitching methods. (MAPPED NOS: LSS/N5805, LSS/N2202, LSS/N2203)	 67. Practice of using grinding materials. (04 hrs.) 68. Practice Stitching of different types. (04 hrs.) 69. Identify & select Different type of grinding material used in leather / rubber. (05 hrs.) 70. Perform grinding using various grinding materials. (06 hrs.) 71. Identify different types and size of needle. (01 hr.) 72. Draw the sketch of free hand drawing in different needle size. (04 hrs.) 73. Practice and identify different types of stitching. (04 hrs.) 	Various grinding materials and uses. Choice and purchase of raw materials and sources of supply. Fabric and coated fabrics. Types of stitching threads (cotton, nylon, polyester) (12 Hrs)



	7-	4. Stitch different part of	
		upper and upper to bottom	
		part using different	
		stitching methods. (07 hrs.)	
	7.	5. Carryout different stitching	
		of hand and machine stitch.	
		(07 hrs.)	
Professional Ider	ntify, operate, 7	6. General maintenance of	Leather - its different sections,
Skill 42 Hrs; trou	ubleshoot &	machines - Brief idea about	their suitability for different
mai	ntain different	minor routine maintenance	purposes, upper leathers skins
Professional equ	ipment used in	and safety aspect and study	and defects of leather. (12 Hrs)
Knowledge foot	twear making.	of different leather. (06	
12 Hrs (MA	APPED NOS:	hrs.)	
LSS/	/Q1801) 7	7. Identify various types of	
		instrument/machine	
		contraction. (04 hrs.)	
	7	8. Identify various parts and	
		section. (04 hrs.)	
	7	9. Check the accuracy	
		precession, sensitivity of	
		machines. (06 hrs.)	
	8	0. Check the speed of	
		response machines. (04	
		hrs.)	
	8	1. Select and verify	
		characteristics of machines.	
		(04 hrs.)	
	8	2. Service and maintenance of	
		machines. (05 hrs.)	
	8	3. Study the construction,	
		operation of the machine.	
		(04 hrs.)	
	8	4. Identify and carry out	
		maintenance and	
		preventive maintenance.	
		(05 hrs.)	
Professional Des	igning, pattern 8	5. Practice on designing,	Lasts and their types and
			1
	ting and	pattern cutting and	standard dimension their



Professional	of different types	different types of footwear	purposes and adaptation for
Knowledge	of footwear.	such as sports shoe,	orthopedic work. Lasts and
12 Hrs	(MAPPED NOS:	walking shoe, running shoe,	plates. Lasts for deformed feet.
	LSS/Q2102,	track shoe, field shoe, and	(12 Hrs)
	LSS/N2103)	safety shoe. (15 hrs.)	
		86. Basic design of different	
		types of chuppal, sandal,	
		oxford, derby, mocca pin,	
		casual, monk ghille, mute	
		court shoe, school choe.	
		(07 hrs.)	
		87. Construct and design of	
		track shoe, winter boot and	
		safety shoe. (07 hrs.)	
		88. Draw a free sketch of all	
		types of styles/ fashion	
		shoes ladies, gents and	
		baby shoe. (05 hrs.)	
		89. Construct and design of	
		different types styles/	
		fashion shoes. (08 hrs.)	
Professional	Apply method of	90. Clicking - Economical	Types of clicking - its purpose,
Skill 42 Hrs;	Economical	cutting of upper	its advantage, machines for
	cutting of	components and linings.	effective clicking.(12Hrs)
Professional	components and	(05 hrs.)	
Knowledge	Stitch by hand and	91. Stitching leather by hand	
12 Hrs	machine to	and machine. (07 hrs.)	
	produce footwear.	92. Identify different types of	
	(MAPPED NOS:	clicking or cutting. (05 hrs.)	
	LSS/N2202)	93. Prepare and practice of	
		economical cutting of	
		upper components and	
		linings. (07 hrs.)	
		94. Draw the free hand sketch	
		with measurement clicking	
		or cutting manual or	
		machine cutting. (07 hrs.)	
		95. Identify different parts of	
		components of shoe upper	



		linings. (02 hrs.) 96. Identify different parts of components of insole, sole heal, top pices, tootles, stiffeners and sock lining. (07 hrs.) 97. Prepare and practice of different types stitching by hand/ machines. (02 hrs.)
Professional Skill 63 Hrs; Professional Knowledge 18 Hrs	Perform different types of application like closing, skiving, folding and identify types of adhesives & their application. (MAPPED NOS: LSS/N2607, LSS/N2606, LSS/N2405, LSS/N2406)	98. Closing, skiving and application of different adhesives, folding of upper and assembling of upper and lining components. (15 hrs.) 99. Prepare application such as Natural rubber solution, Rubber latex, Polyurethane adhesives, Neoprene adhesive, hot melt adhesives, etc. hardener for adhesives, preparation and application, Backing up their leather. (16 hrs.) Knowledge of edges, seams and their treatment. Seam strength, stitches used in closing upper ornamentation. Adhesives used in footwear, their names and description, different types of adhesives and their application such as Natural rubber solution, Rubber latex, Polyurethane adhesives, Neoprene adhesive, hot melt adhesives, etc. hardener for adhesives, preparation and application, Backing up their leather. (18 Hrs)
		100. Identify of marking essential of colour marking the edge of the component, nicks on the edge of the clicking knife and stamping machine using a metal foil. (10 hrs.) 101. Prepare different types edge treatment. (06 hrs.) 102. Prepare different types of adhesives and backing up their leather. (06 hrs.) 103. Surface preparation



			consists of sourcing the surfaces using emery paper/ cloth. (02 hrs.) Prepare and practice roughening of the surfaces using size of the wire brush. (02 hrs.) Prepare by upper stitching machines – like post bed sewing machine and cylinder bed sewing machine, zigzag sewing machine. (06 hrs.)	
Professional Skill 63 Hrs; Professional Knowledge 18 Hrs	Identify different sorting& matching cut components, bottom components, prepare toe & counter stiffer, drafting & lasting. (MAPPED NOS: LSS/N2701, LSS/N2703)	107. 108. 109. 110.	Cutting bottom components economically, insole attachment and feathering. (14 hrs.) Preparation of toe and counter stiffeners. (06 hrs.) Prepare drafting and lasting. (06 hrs.) Identify sorting and matching – cut components according to quality. (07 hrs.) Prepare lasting the upper roughening and attachment of soles to upper. (10 hrs.) Draw the free hand sketch of casting down and force casting. (05 hrs.) Prepare flat lasting, string lasting and force lasting the upper. (10 hrs.) Prepare welted construction and	Sorting and matching cut components according to quality. Economic layout and utilization of different sections for bottom components. (18 Hrs)



		veldtschoen construc	tion
		operations for lasting	the
		upper. (05 hrs.)	
Professional Skill 42 Hrs; Professional Knowledge 12 Hrs	Identify various types of molding machine their parts and section. (MAPPED NOS: LSS/N7501)	14. General maintenance moulding machine an safety. (10 hrs.)15. Identify various types molding machine and used. (05 hrs.)	direct injection process. Functions of Moulded machine. Synthetic toe – Puff and Stiffeners, methods of their applications and types of
		 Identify various parts section of moulding machine. (10 hrs.) 	and solvent used for the purpose. Feathering – Preparation of stiffeners.(12Hrs)
		 Check the accuracy precession sensitivity molding machines. (0 hrs.) 	
		18. Check the speed of response molding machines. (03 hrs.)	
		 Identify and carry out maintenance and preventive maintenantenantenantenantenantenantenante	
Professional Skill 105 Hrs;	Prepare & perform insole making, drafting, lasting, sole	 Welt stitching – Botto filling, sole attaching stitching, Heel fixing. hrs.) 	and lasting, sole attaching, sole
Professional Knowledge 30 Hrs	attaching, sole stitching, welt stitching, bottom filling, heal fixing	 Finishing, single sole stitching and cement method of constructi (08 hrs.) 	
	&finishing. (MAPPED NOS: LSS/N3303)	 Prepare basic block diagram of about Moulding Machine. (0 hrs.) 	03
		 Prepare manufacture molded shoes. (05 hr 	



preparation, drafting,	
lasting colo attaching colo	
lasting, sole attaching, sole	
stitching, welt stitching,	
bottom filling, heal fixing,	
finishing. (08 hrs.)	
125. Prepare Backpart	
moulding. (03 hrs.)	
126. Practice toe puff	
attachment (fusing press)	
and toe puff conditioning.	
(5 hrs.)	
127. Prepare and practice	
attach insole to the last	
bottom and pulling over	
toe laster. (03 hrs.)	
128. Identify various parts and	
section of pulling and toe	
lasting machine. (03 hrs.)	
129. Check the accuracy	
precession of pulling and	
toe lasting machine. (04	
hrs.)	
130. Identify and carry out	
maintenance and	
preventive maintenance.	
(05 hrs.)	
131. Identify various parts and	
section of sole stitching	
machine. (04 hrs.)	
132. Finishing of shoes & other Waxes and polishes used in	
articles. (05 hrs.) finishing –their names and	
133. Practice on Marks and application. Marks and	
blemishes – their blemishes – their character a	and
character and process of process of removal.(12Hrs)	
removal. (05 hrs.)	
134. Prepare bottom finishing	
(leather soles and heels).	
(05 hrs.)	



		135.	Prepare positioned edge	
			set and formations edge	
			inking. (04 hrs.)	
		136.	Prepare upper finishing,	
			repair and shoe dressing.	
			(05 hrs.)	
		137.	Check the accuracy of	
			product shoes. (05 hrs.)	
		138.	Practice test methods	
			using the universal testing	
			machine. (05 hrs.)	
		139.	Select and verify	
			characteristics of universal	
			testing machine. (05 hrs.)	
		140.	Identify various parts and	
			section of universal testing	
			machine. (05 hrs.)	
Professional	Prepare different	141.	Construct and making of	Wastage – its proportions and
Skill 42 Hrs;	type of boots		shoes of latest fashion. (07	limits.
	applying latest		hrs.)	Waste cutting and their
Professional	fashion and check	142.	Identify and repairing of	utilization.
Knowledge	defects of finished		boots and shoes, half	Commercial calculations
12 Hrs	products.		soling, healing, resoling.	&theory of industrial
	(MAPPED NOS:		(04 hrs.)	boot.(12Hrs)
	LSS/N3303)	143.	Construct and design	
			making different sizes	
			safety boots, industrial	
			boots and winter boots.	
			(07 hrs.)	
		144.	Construct and design	
			different sizes of styles/	
			fashion shoes (child &	
			adults) (07 hrs.)	
		145.	Construct and design	
			different sizes of shoes	
			and sports/ athletic shoes	
			(child & adults) (04 hrs.)	
		146.	Check manufacturer	
			defect on the shoes of test	
		ı		l .



			method by machine. (04	
			hrs.)	
		147.	Identify various scuff	
			damage, adhesive and	
			solvent taints are to be	
			rectified. (04 hrs.)	
		148.	Identify various damage	
			and defects on the shoe to	
			be rectified. (05 hrs.)	
Professional	Calculate material	149.	Exercise on calculation of	Costing of footwear – Costing
Skill 42 Hrs;	consumption and		material consumption,	method of materials by weight
	reduction of		Reduction of wastage. (04	and area.
Professional	wastage, Testing		hrs.)	Marketing of finished goods.
Knowledge	of footwear and	150.	Preparation of cost sheets	(12 Hrs)
12 Hrs	their assessment.		for finished footwear. (04	(12 1113)
121113	(MAPPED NOS:		hrs.)	
	LSS/N1002,	151.	Identify length and	
	LSS/N1003,		thickness of the raw-	
	LSS/N1004)		materials sheet. (04 hrs.)	
		152.	Prepare the graded	
			exercise can do one sheet.	
			(04 hrs.)	
		153.	Draw the sketch as per	
			exercise. (04 hrs.)	
		154.	Calculate total length and	
			no of pieces requires for	
			exercise. (06 hrs.)	
		155.	Prepare for construction	
			of materials and reduction	
			of wastage. (04 hrs.)	
		156.	Prepare and roll of Quality	
			control. (04 hrs.)	
		157.	Inspection of footwear.	
			(04 hrs.)	
		158.	Testing of footwear and	
			their assessment. (04 hrs.)	
Professional	Calculate cost of	159.	Practice on costs of	Knowledge of costs of finished
Skill 42 Hrs;	production and		finished products and their	products and their selling
	quality		selling prices, Overhead	prices. Overhead costs and
		1		l .



Professional	assessment of	costs and their	their distribution. (12 Hrs)
Knowledge	footwear	distribution. (10 hrs.)	
12 Hrs	products.	160. Identify testing	
	(MAPPED NOS:	equipments and test	
	LSS/N3406)	methods (developed for	
		different styles and	
		designs of footwear). (08	
		hrs.)	
		161. Testing and quality	
		assessment. (05 hrs.)	
		162. Shoe and allied trades	
		research association. (04	
		hrs.)	
		163. Specification of British	
		standards (BS), German	
		standard (DIN), and	
		International standard	
		(ISO) are widely used. (07	
		hrs.)	
		164. Require minimum any	
		shoe industry of a testing	
		laboratory is specified. (08	
		hrs.)	
Project work	/ Industrial visit		

Project work/ Industrial visit

Broad Areas:

- a) Prepare different types of edge treatment.
- b) Surface preparation consists of sourcing the surfaces.
- c) Identify sorting and matching, cut components according to quality.
- d) Identify various parts and section of molding machine.
- e) Construct and making shoes safety boots and industrial boots.
- f) 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 CTS trades) (120 Hrs)

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



5 Nos



List of Tools & Equipment FOOTWEAR MAKER (for batch of 20 Candidates) S No. Name of the Tools and Equipment Specification Quantity A. TRAINEES TOOL KIT Wooden Clamps 20+1 Nos. **Awls Welt Stitching** 20+1 Nos. 2. **Awls Sole Stitching** 20+1 Nos. 3. Pricking awls 20+1 Nos. 4. **Scissors** 20+1 Nos. 5. 20+1 Nos. Knives rampees 6. **Pinchers** 20+1 Nos. 7. 20+1 Nos. 8. Compasses 9. Measuring tapes 20+1 Nos. Shoe hammers 10. 20+1 Nos. 11. Kit boxes 375 x 250 x 200 mm. 20+1 Nos. Stone slabs. (Marble/cuddappa) 20+1 Nos. 12. Size tape shoe makers 13. 20+1 Nos. Wooden blocks 20+1 Nos. 14. 15. Wooden lags 20+1 Nos. Iron (for part waist) 20+1 Nos. 16. Iron lasts three lags 5 Nos 17. Iron (for part waist) 6 Nos. 18. Fudge wheels 5 Nos 19. Sole decorating wheels 5 Nos 20. 21. Edge setters 12 Nos. Shoe maker's knives 20+1 Nos. 22. Punches of sizes and designs 20+1 Nos. 23. Wooden / PVC lasts sizes 5 to 10 (Gents) 20+1 Nos. 24. Wooden / PVC lasts boys sizes 1 to 4 12 Pairs 25. Wooden / PVC lasts children sizes 4 to 13 26. 20+1 Nos. Wooden / PVC lasts ladies size 2 to 7 15 Pairs 27. 28. Adhesives containers 20+1 Nos. Stove / Heater 1000 Watts 29. 3 Nos.

Enamel basin

30.



31.	Polishing brushes		5 Nos
32.	Oil stone	25 x 50 x 150 mm	7 Nos.
33.	Micrometer	0-25	7 Nos.
34.	Spring Divider		20+1 Nos.
35.	Indenting Scissors		20+1 Nos.
36.	Wooden Lags		20+1 Nos.
37.	Glass Plate	(3 mm-5mm thick) 750mm x 500mm	1 No.
B. GE	NERAL MACHINERY		
38.	Sewing machine cylinder bed		4 Nos.
39.	Sewing machine industrial type flat bed		20 Nos.
40.	Upper leather skiving machine		1 No.
41.	Punching and eyeleting devices		1 No.
42.	Combined finishing machine		1 No.
43.	Sewing Machine Double Needle Flat Bed		1 No.
44.	Sewing Machine Post Bed		1 No.
45.	Hydraulic Clicking Machine		1 No.
46.	Stamping / Stampica Machine		1 No.
47.	Air Stuck : Pneumatic Cementing Press		1 No.
	Machine		
48.	Manual Sole Pressing Machine		1 No.
49.	Clicker Machine		1 No.
50.	Skive Machine		1 No.
51.	Decorating Machine		1 No.
C. SHO	OP FLOOR FURNITURE		
52.	Almirah		2 Nos.
53.	Trainee (Footwear) work bench		20 Nos.
54.	Show case		1 No.
55.	Work bench for clicking		10 Nos.
56.	Instructor's desk and chair		1 Set
57.	Durries	200 x 250 mm	2 Nos.
58.	First Aid Box		1 No.
59.	Black Board with Easel		1 No.
60.	Stools and desk for trainee		1 No. each
61.	Work Table with vice guard		1 No. each
Motor			

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.



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
СР	Cerebral Palsy
MD	Multiple Disabilities
LV	Low Vision
НН	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



