

**Curriculum
For
Certificate in Handloom Weaving
1-Year Course
Code:VI87S010
(2013)**

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Name of the course: Hand loom Weaving

Introduction This course of Certificate in Fabric hand loom weaving has been developed for those persons who have ability to read and write in English and Urdu languages and are familiar with the processes of the looming. If the learners do not fulfill the last requirement then they will be made familiar with the processes during the course of training. The modules cover all the departments of weaving mills which include fabric analysis, warping, sizing department, drawing in, weaving, inspection, folding and packing departments.

Overall objectives of the course.

The trainee will be able to weave the fabric by using handloom effectively and efficiently and also be able to run his/her own business/unit.

- To Understand the analysis of woven fabric.
- To Understand the yarn winding sections and its processes.
- To Understand the warping process.
- To Understand the sizing process.
- To Understand the drawing in process according to the design.
- To Understand the fabric manufacturing process and its impact on fabric qualities.

Competencies gained after completion of the course

- Trainee will be able to operate the hand loom accurately as per order requirements.
- Trainee will be able to collect the order from the market for their business.
- Trainee will be able to analyze the material required for weaving supervise the processes involved in hand loom weaving.
- To Clean all the machines
- To Repair/ change the faulty parts
- To Perform the maintenance of the machine parts according to the given schedules
- To Work effectively in a repair and maintenance team
- Can collect order from the market effectively.

Job opportunities

After completing the course, learners will have the opportunities to pursue career opportunities into job roles such as assistant supervisor, Educational sector as lab Technician.

Trainee entry level: Minimum Middle.

Minimum qualification of trainer: D.A.E. in relevant field.

Medium of Instruction: Urdu preferably

Sequence of the modules:

- Module 1: Collect order
- Module 2: Create design
- Module 3: Prepare warp
- Module 4: Carry out drawing in
- Module 5: Prepare weft
- Module 6: Weave the fabric
- Module 7: Carry out quality check
- Module 8: Adopt safety precaution
- Module 9: Perform finishes
- Module 10: Delivery of end product
- Module 11: Develop professionalism
- Module 12: Communicate with others

Timeframe of assessment:

Total Hours: 1600 hrs

Theory hours: 326 hrs

Practical hours: 1274 hrs

Overview about the program –Curriculum for (Hand loom Weaving)

Module Title and Aim	Learning Units	Theory ¹ Days/hours	Workplace ² Days/hours	Timeframe of modules
Module 1 Collect Order	<ul style="list-style-type: none"> • Loom introduction • Identify material • Organize, Plan and Prioritize Work • Identify color scheme • Number of frames required for given design/weave. 	27 hours	106 hrs	First Module
Module 2 Create Design	<ul style="list-style-type: none"> • Create Plain Weave design • Create different kinds of design/weave • Create weave desigs of simple shawls • Create weave design of different mats • Create weave design of blinds(Chiks) 	27 hours	106 hrs	Module 1
Module 3 Prepare Warp	<ul style="list-style-type: none"> • Select Yarn • Prepare yarn for dyeing • Collect ends of warp • Measure 	27 hours	106 hrs	Module 2

¹ Learning hours in training provider premises

² Training workshop, laboratory and on-the-job workplace

	<ul style="list-style-type: none"> Length Sizing of yarn 			
<p>Module 4</p> <p>Carry out drawing – in/Drafting</p>	<ul style="list-style-type: none"> Draw yarn from heald wire Draw yarn from reed Maintain design weave/paddles 	27 hours	106 hrs	Module 3
<p>Module 5</p> <p>Prepare weft</p>	<ul style="list-style-type: none"> Measure Length/weight. Select weight Carryout winding of bobbin 	27 hours	106 hrs	Module 4
<p>Module 6</p> <p>Weave the fabric</p>	<ul style="list-style-type: none"> Perform shedding Perform picking Perform beating-up Perform let-off Perform take-up 	28 hours	107 hrs	Module 5
<p>Module 7</p> <p>Carry out Quality check</p>	<ul style="list-style-type: none"> Check fabric quality Check design Check fabric dimensions Ends, picks and width 	27 hours	106 hrs	Module 6
<p>Module 8</p> <p>Adopt Safety Precautions</p>	<ul style="list-style-type: none"> Weft protection Workplace safety Adopt safety of tools/equipmen 	27 hours	106 hrs	Module 7

	t			
Module 9 Perform Finishing	<ul style="list-style-type: none"> • Perform mending/inspection. • Carry out calendaring • Remove stains 	27 hours	106 hrs	Module 8
Module 10 Delivery of End Product	<ul style="list-style-type: none"> • Carryout packaging • Carryout tagging • Delivery to customer • Performance, evaluation 	27 hours	106 hrs	Module 9
Module 11 Develop Professionalism	<ul style="list-style-type: none"> • Participate in skill test/competition • Consult with experts • Interact with co-workers • Participate in trainings 	27 hours	106 hrs	Independent
Module 12 Communicate with others	<ul style="list-style-type: none"> • Communicate with customers • Communicate with supervisors • Communicate with co-workers 	28 hours	107 hrs	Independent

Hand Loom Weaving Curriculum Contents (Teaching and Learning Guide)

Module 1:.... Collect Order

Objective of the Module: ...To collect the order from the market in time by analysing resources and capabilities of ourselves in order to generate profit for their businesses.

Duration: ..133 hours Theory: ..27 hrs Practice:....106 hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials/ tools Required	Learning Place
<ul style="list-style-type: none"> Identify materials 	To analyze the material requires for completing the given order.	<p>Knowledge of: Materials such as fibers, yarns</p> <p>Ability to: Identify different type of material/ fibers accurately such as which material (yarn) is suitable for weaving that it requires more strength and having uniformity according to the customer requirement.</p>	10/34 hr	Fabrics , Pick counting Glass, books	Lab
<ul style="list-style-type: none"> Organize, Plan and Prioritize Work 	To arrange the assigned Work properly by adopting all important parameters of management.	<p>Knowledge of: Loom mechanisms such as its motions and also preparatory processes like warping, sizing.</p> <p>Ability to: Manage the work efficiently and effectively such as supply chain operations and time management that helps to select which action is to be done first and which will be later on i.e. warping done</p>	10/34 hr	Yarn strength tester	lab

		first or not.			
<ul style="list-style-type: none"> Identify color scheme 	To do the right selection of color of the order and its effect on the fabric and can apply suitably on the given fabric.	<p>Knowledge of: Color sense, types of colors such as primary colors, secondary and tertiary colors</p> <p>Ability to: Sense the color effectively which colors are appropriate according to the end use.</p>	10/35 hr	GSM Cutter and weighing Balance	lab

Module 2:Create Design

Objective of the Module: ..To develop the woven designs on the paper and their fabrics as per requirement given in the order.

Duration:133..... hours Theory:27..... hours Practice:....106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials/equipment Required	Learning Place
<ul style="list-style-type: none"> • Create plain Weave design. 	To develop graph of plain cloth on point paper as per requirement.	Knowledge of: Graph, weaves, Ability to: To be competent in organizing and developing the graphs along weave plan on point paper effectively.	8/34 hr	Creel, yarn cones, graph paper and pick glass.	lab
<ul style="list-style-type: none"> • Create weave designs for different kinds of cloth • Create weave design of simple shawls • Create weave design of mats • Create weave design of blinds (Chiks) 	To develop the designs of different kinds of cloth , shawls and other products like mat and blinds	Knowledge of: Graphs, shawls weaves, table mat. Ability to: To make graphs of respective products effectively and accurately such as proper weave plan that covers shaft or peg plans.	21/71 hr	Warping machine	lab

Module 3:...Prepare Warp

Objective of the Module: .To wind the warp yarn on the beam as per requirements of the end use.

Duration:133..... hours Theory:27..... hours Practice:.....106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> Select Yarn 	To select the appropriate yarn for weaving according to end use.	Knowledge of: Yarn count, properties i.e. strength, hairiness, evenness Ability to: To select the yarn correctly for the end use after observing test results of strength, evenness through the testing report	8/26 hr	Sizing machine and beams	lab
<ul style="list-style-type: none"> Prepare yarn for dyeing 	To do the yarn dyeing properly with respect to different materials as per requirements given.	Knowledge of: Dyeing recipes Such as recipe for cotton material, wool material etc Ability to: Dye the yarn effectively and efficiently with respect to the different materials i.e. silk, cotton so that reactive dyes can be for natural and disperse for synthetic materials.	8/26 hr	Sizing machine	Lab
<ul style="list-style-type: none"> Collect ends of wrap 	To do the measuring	Knowledge of: Yarn length	8/26 hr	Sizing machine and	lab

<ul style="list-style-type: none"> Measure Length 	<p>calculation of yarn and count the warp yarn ends according to the end use.</p>	<p>calculation that how many yarns are required for certain quality by using different methods i.e. manual method by using scale.</p> <p>Ability to: Yarn calculation effectively and efficiently such as no of ends/inch and no of pick/inch</p>		yarn	
<ul style="list-style-type: none"> Sizing of yarn 	<p>To do the yarn sizing by applying all its necessary processes efficiently as per requirements given.</p>	<p>Knowledge of: Sizing ingredients i.e. PVA, Starch, water and recipes for different materials. Ability to: to size the yarn of different material such as cotton, silk efficiently and accurately by using different recipes.</p>	3/13 hr	Sizing ingredients i-e starches, PVA, Oils and Waxes, Water	Lab
<ul style="list-style-type: none"> Warping 	<p>To wind the warp yarns on the beam accurately as per requirements.</p>	<p>Knowledge of: How to get desired no. of warper beam Ability to: warping of yarns on beams in proper given time by considering all important parameters like even winding, breakages.</p>	3/12	Warping machine	Lab

Module 4:...Perform Drawing In

Objective of the Module:To Perform Drawing In process as per requirement on the loom effectively and efficiently.

Duration: ...133..... hours Theory: ..27..... hours Practice:..106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> • Draw yarn from heald wire • Draw yarn from reed • Maintain design paddle formation. 	To do the setting of warp through heald wires. Reed denting filling, warp according to the pattern.	<p>Knowledge of: Heald wires with respect to the different materials and its types, reed count with respect to the design and end product.</p> <p>Ability to: Perform drawing in effectively and efficiently by passing the yarn from different parts of the loom.</p>	27/106 hrs	Heald wires, reed, drawing-in needle, yarns	lab

Module 5:.... Prepare Weft

Objective of the Module: ..To prepare weft yarn as per requirement for the weft insertion.

Duration:133..... hours Theory:27.....hours Practice:..106.....hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> • Measure Length • Carryout winding of bobbin 	To do measuring calculation for preparing bobbin for weft	<p>Knowledge of: Yarn package formation. yarn winding processes and tools such as by using pirn winders,</p> <p>Ability to: To calculate the weft yarn length accurately for bobbins</p>	20/61 hrs	Loom	Lab
<ul style="list-style-type: none"> • Set weight 	To do how to adjust weight as per requirement	<p>Knowledge of: Role of weight and different sizes of weights</p> <p>Ability to: Hang the weight as per requirement effectively on back side of loom.</p>	10/40 hrs	Comb	lab

Module 6:.....Weave the fabric

Objective of the Module: ...To weave the fabric as per requirement by performing all its motions.

Duration: .135..... hours Theory:28..... hours Practice:.107..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> Perform shedding motion 	To do the shedding mechanism for proper weaving.s	<p>Knowledge of: Shedding and its types such as cam, dobby, jacquard and Shed height.</p> <p>Ability to: Perform shedding effectively with respect to the time management, product requirement by adjusting different level of shedding heights</p>	8/26 hrs	Loom	Lab
<ul style="list-style-type: none"> Perform Picking motion 	To do the weft insertion in to shed effectively.	<p>Knowledge of: Picking mechanisms and</p> <p>Weft insertion systems such as manual, shuttle etc.</p> <p>Ability to: To do picking accurately and timely effectively for proper weaving.</p>	8/26 hrs	Loom	Lab
<ul style="list-style-type: none"> Perform beating-up motion 	To push the newly weft insertion up to the fell of the	<p>Knowledge of: Beating and its effect on the fabric such as</p>	8/26 hrs	Loom	Lab

	cloth accurately.	strong beat up is required for proper weaving. Ability to: To do beating-up forcibly and correctly so that weaving can be done accurately without any loose effect in the fabric.			
<ul style="list-style-type: none"> • Perform let off motion • Perform take up motion 	To adjust let off and take motion as per requirement on the loom for proper weaving.	Knowledge of: Secondary motions and its need such as it supports the with draw of yarn as per requirement Ability to: To do the take up and let off motions effectively as per requirement in order to carry out the weaving.	8/25 hrs	Loom	Lab

SEMESTER 2

Module 7: Carry out quality Check

Objective of the Module: ..To perform the quality checks for the freshly woven fabrics and able to identify the fabric fault accurately.

Duration:133..... hours Theory:27..... hours Practice:....106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> Check fabric quality 	To check the quality parameters of the woven fabric accurately with respect to end use.	<p>Knowledge of: Parameter of fabric quality like, ends/inch, ppi, weave, GSM, width etc</p> <p>Ability to: To find out faults their reasons and remedies that against the quality of fabric such as incorrect GSM ,strength etc</p>	18/53 hrs	Fabrics, GSM cutter, pick glass.	Class room
<ul style="list-style-type: none"> Check design 	To develop the weave design and check its repeat accurately.	<p>Knowledge of: Designs and design repeat in the fabric.</p> <p>Ability to: Identify the weave design and its repeat accurately</p>	6/24 hrs	Fabrics, pick glass.	Class room
<ul style="list-style-type: none"> Check fabric dimensions 	To make sure the correct dimensions of woven fabrics and can calculate the measuring length of fabric.	<p>Knowledge of: Concepts of fabric dimensions</p> <p>Ability to: Identify the dimensions of the fabrics in terms of length, width correctly w.r.t end use.</p>	6/24 hrs	Fabric	Class room

Module 8:Adopt safety measures

Objective of the Module: to perform safety measures for saving from any loss or damage.

Duration: ...133..... hours Theory: 27 hours Practice:..106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> Weft protection 	To protect the fabric from the flying shuttle and can save the fabric quality.	Knowledge of: Shuttle speed and its probability of coming out from shed that gives its effect on fabric. Ability to: run the loom safely in order to protect from shuttle that damage the fabric quality.	16/57 hrs	Loom	Lab
<ul style="list-style-type: none"> Workplace safety Adopt safety of tools/equipment 	How to use the safety tool, understanding of atmospheric temperature and use of precautionary tools	Knowledge: which type of safety tool for which use i.e mask, ear plug gloves etc and knowledge of importance of atmospheric parameter for weaving Ability to: Use of precautionary tools for safety accurately and timely	12/48 hrs	...	lab

Module 9:Perform Finishing Maintenance

Objective of the Module: ..To perform mending of the defected fabric that makes the quality of the fabric A grade.

Duration:133..... hours Theory: .27..... hours Practice:....106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> Perform mending 	To check the mend able and non mend-able faults from the fabric and can mend them accurately.	<p>Knowledge of: Faults type, mend-able and non mend-able faults such as holes, double pick, double end, miss pick etc.</p> <p>Ability to: to mend the faults effectively that are mendable</p>	15/49 hrs	Plucker, scissors	Lab
<ul style="list-style-type: none"> Carry out calendaring 	To do the calendaring of the fabric w.r.t. product type and its effect on fabric.	<p>Knowledge of: Calendaring and its role.</p> <p>Ability to: Calendar the product w.r.t end use effectively and efficiently.</p>	7/18 hrs	Calendar machine	Lab
<ul style="list-style-type: none"> Remove stains 	To remove the stains from the fabric as obtained by weaving.	<p>Knowledge of Stains types and its consequences on the fabric.</p> <p>Ability to Remove the different types of stains efficiently</p>	11/32 hrs	Detergents, bleaches etc	lab

Module 10:Deliever to the customer

Objective of the Module: ..To deliever the order to the customer on all demanding requirements with in time limits.

Duration: .133..... hours Theory:27..... hours Practice:...106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> • Carryout packaging • Carryout tagging • Delivery to customer 	To do the packing of the order which includes the covering , its tagging and can delivery to customer accurately.	Knowledge of: Types of packing, tagging styles Ability to: to pack the orders, tag them with respect to customer requirements Ability to: To perform the packing, its tagging effectively.	27/106 hrs	Fabrics , plucker, mending tool	Class room

Module 11:Develop Professionalism

Objective of the Module: ...To understand the Professionalism of the work place that able the trainee to work accurately and effectively

Duration:133..... hours Theory:27..... hours Practice:...106..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> • Participate in skill test/ competition • Consult with experts • Interact with co-workers • Participate in trainings 	To maintain the organizational behavior in the job place by considering the difference between attitude and behaviour and its effect in the organization.	Knowledge of: Organizational behavior skills. Ability to: To interact with other employees Effectively by understanding how to behave in any organization.	27/106 hrs	Books	Class room

Module 12:Communicate with others

Objective of the Module: ...To communicate effectively within or outside the organisation appropriately.

Duration: .135..... hours Theory:28..... hours Practice:...107..... hours

Learning Unit	Learning Outcomes	Learning Elements	Duration THR/PR	Materials Required	Learning Place
<ul style="list-style-type: none"> Communicate with customers 	Communication skills verbal and non verbal.	Knowledge of: Communication skills such as verbal, non verbal Ability to: To communicate effectively and accurately.	28/107hrs	Books	Class room
<ul style="list-style-type: none"> Communicate with supervisors 	Communication skills verbal and non verbal	Knowledge of: Communication skills such as verbal, non verbal Ability to: To communicate effectively and accurately.	28/107hrs	Books	Class room
<ul style="list-style-type: none"> Communicate with co-workers 	Communication skills verbal and non verbal	Knowledge of: Communication skills such as verbal, non verbal Ability to: To communicate effectively and accurately.	28/107hrs	Books	Class room

Assessment Template

Module 1: Fabric analysis

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Analyze the Fabric	3 hours	7 hr	Explain the following Sample no: Weave type: Yarn type Fibre type GSM: Weave plan: Yarn fineness: Yarn defects:	Manual working (Unraveling the fabric for thorough study(manually))	

Module 2: Create design

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Create design for canvas	1.5 hours	7 hr	Explain the following by giving Complete Weave plan. Design, peg plan,draft	Written test	
Create design for table matt	1.5 hours	7 hr	Explain the following by giving Complete weave plan Design,peg plan, draft	Written test	

Module 3 Prepare Size Beam

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Yarn path from different zones	2.5 hours	5 hr	Draw the Yarn path diagram From creel zone, sizing zone, drying zone, leasing zone and winding zone and submit the hard copy by giving its detail.	Written and Practical work	

Module 4: Prepare weft

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
<ul style="list-style-type: none"> • Measure length 	30 min	2 hrs	Calculate the length of weft required for the sample.	Written and Practical work	
<ul style="list-style-type: none"> • Carryout winding of bobbin 	30 min	2 hrs	Explain the winding process	Oral assessment	

Module 5: Perform Drawing In

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Yarn path from, heald wire and reed	2.5 hours	5 hr	Draw the Yarn passage from heald wire and reed according to design w.r.t frames and submit the hard copy.	Written assessment	

Module 6: weave fabric

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
<ul style="list-style-type: none"> • Perform shedding • Perform picking • Perform beating • Perform let off • Perform take up 	2 hrs	4 hrs	Explain the primary and secondary motions of the loom and submit a sample of plain cloth	Written or oral assessment and	

Module 7(a): Carry out quality check.

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Check yarn breakage and fabric quality	1 hours	3 hr	Calculate defects occurring in one hours like yarn breakage, yarn count(warp,weft) yarn finesses, width and GSM and submit the report	Written assessment	

Module 7 (b) : Carry out Quality Check

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Cleaning the machine and its parts	1.5 hours	3.5Lab	Submit the Picture of un cleaned and cleaned machine and its parts	Manual working(practical)	
Lubrication of main machine parts	1.5hour	3.5Lab	Submit Picture of lubricated machine parts	Manual working (practical)	

Module 8: Perform Finishes

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
Inspection of the fabric and its grading	3 hours	7 hrs	Observe the faults and Submission of faulty fabric after mending with its grading by explaining its type	Written assessment and Manual working	

Supportive notes

- Resources requires

Proper labs or weaving mill for performing the activities of warping, sizing, drawing in, looms and faulty fabrics.

Books Recommended

Hand loom Weaving by Amalsad(Orient langman limited)

List of Tools, Machinery & Equipment

Name of Trade	Hand Loom Weaver
Duration	1600 hours

Sr. No.	Name of Item/ Equipment / Tools	Qty.
1.	Wrapping wheel/ spinning wheel	1
2.	Sectional Warping(hand)	1
3.	Loom (Hand)	20
4.	Pick counting Glass	20
5.	Comb	20
6.	Plukers	20
7.	Scissors	20
8.	GSM cutter	10
9.	Weighing Balance	10

Contributions for Development of This Curriculum

DACUM Working Group

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