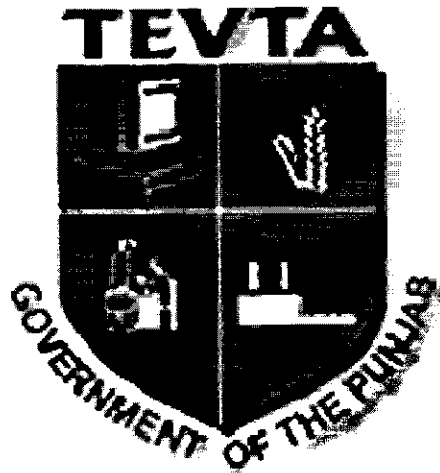


GOVERNMENT OF THE PUNJAB
TECHNICAL EDUCATION & VOCATIONAL
TRAINING AUTHORITY



CURRICULUM FOR
Fabric Finishing Expert

(6 – Months Course)
Evaluated November, 2015

CURRICULUM SECTION
ACADEMICS DEPARTMENT

96-H, GULBERG-II, LAHORE
Ph # 042-99263055-9, 99263064
gm.acad@tevta.gop.pk, manager.cur@tevta.gop.pk

APPROVED

19-11-2015

Fabric Finishing Expert Course (6- Months)

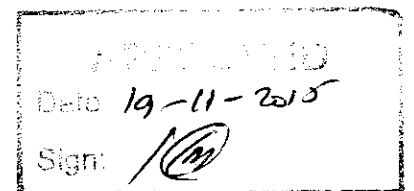
TRAINING OBJECTIVES

This course is very important for value addition in textile sector. Trained workforce is rarely available in textile sector for this particular trade. The major reason for targeting this area is that it will create a pool in the textile sector and will be helpful to bring trickledown effect for new entrants. In order to reduce unemployment, the curriculum is designed to impart the technical knowledge and skills to those who are literate. Ultimately this would helpful in

- Alleviating poverty
- Generate skilled resource
- Source of income
- Addition in more revenue.

CURRICULUM SALIENTS

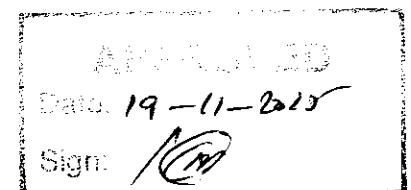
Name of course	:	Fabric Finishing Expert
Entry Level	:	Matric
Duration of Course	:	6 – Months
Total Training Hrs	:	800 Hours
		40 Hours per week
		6 days per week
		7 Hours daily except Friday 5 Hours
Training Methodology:	Practical	80%
	Theory	20%
Medium of Instruction:	Urdu/English	



SKILL COMPETENCY DETAILS

On successful completion of this course, the trainee should be able to:-


1. Operate stretch machine
2. Operate gas dryer
3. Operate the Jumbo Dryer
4. Operate the Compactors
5. Operate the Slitting machines
6. Operate the Stenters
7. Raising and Peaching
8. Edge sewing
9. Safety rules applications



KNOWLEDGE PROFICIENCY DETAILS


On successful completion of this course, the trainee should be able to:-

1. Fabric Stretching
2. Fabric Drying methodologies
3. Compacting
4. Control of shrinkage
5. Finishing Chemical Application
6. Slitting procedures
7. Raising and Peaching methodologies
8. Tubular and Open width Finishing Procedures
9. First Aid treatment.
10. Safety precautions

Approved
Date 19-11-2015
Sign: 


CURRICULUM DELIVERY STRUCTURE

	Curriculum Delivery	Make Up Session	Revision	Final Test	Total
WEEK	1-10	11	12	13	13
	10	1	1	1	

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SCHEME OF STUDIES
Fabric Finishing Expert Course
(6-Months)

S.No	Main Topics	Theory Hours	Practical Hours	Total Hours
1.	Introduction and Basic Information	110	0	110
2.	Slitting Procedures	0	110	110
3.	Hydro Procedures	0	90	90
4.	Stretching Procedures	20	80	100
5.	Stenters Operations Procedures	0	110	110
6.	Compactors Operation Methods	0	70	70
7.	Raising and Peaching	10	90	100
8.	Edge Sewing	0	50	50
9.	Functional English	20	20	40
10.	Work Ethics	0	20	20
Total		160	640	800

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Detail of Course Contents
Fabric Finishing Expert Course
(6-Months)

1.	Introduction and Basic Information		
	1.1 The Textile Finishing Stage	6	
	1.2 Cotton Finishing Processes	6	
	1.3 Synthetic Fibers Finishing Processes	6	
	1.4 Mechanical Finishing Treatments	5	
	1.5 Raising	5	
	1.6 Stabilization	5	
	1.7 Steaming	7	
	1.8 Chemical Finishing Treatments	8	
	1.9 Softening	8	
	1.10 Crease-proof Treatments	7	
	1.11 Flame-retardant Treatments	5	
	1.12 Hydrophobic, Oil-proof and Water-proof Treatments	6	
	1.13 Anti-soil Treatments	5	
	1.14 Anti-static Treatments	5	
	1.15 Anti-mildew Treatments	5	
	1.16 Antimicrobial Treatments	4	
	1.17 Plasma Treatments	6	
	1.18 Enzyme Treatments	5	
	1.19 The Influence of Finishing Treatments on Dyed Goods	6	
2.	Slitting Procedures		
	2.1 Lot Receiving		7
	2.2 Adjusting The Trolleys In Sequence For Slitting		8
	2.3 Cleaning the Slitting Machine before Feeding the Fabric		6
	2.4 Placing the Trolley on Turn Table		5
	2.5 Job Card		5
	2.6 Adjusting the Pressure on Rope Squeezer		7
	2.7 Guiding Fabric Through Machine Properly		9
	2.8 Adjusting the Squeezing Pressure		9
	2.9 Needle Drop Sensor and Slitting Blade Setting		8
	2.10 Rope Opening Basket Adjustment		9
	2.11 Trolley Inspection for Squeezed/Opened Fabric		11
	2.12 Handling Holes in Fabric Ropes		5
	2.13 Placement of Trolleys in Proper Way		6
	2.14 Scanning the Barcode		5
	2.15 Precautions During Slitting		10
3.	Hydro Procedures		12
	3.1 Cleaning of Hydro Machine		8
	3.2 Checking the Job Card		10
	3.3 Feeding the Fabric in Hydro Machine		9
	3.4 Filling of Hydro Machine		

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Fabric Finishing Expert Course (6- Months)

	3.5	Squeezing of Fabric		12
	3.6	Lapping of Fabric		10
	3.7	Speed Adjustment		11
	3.8	Putting Trolley on Turn table		9
	3.9	Setting of Rope Squeezer Pressure		9
4.	Stretching Procedures			
	4.1	Adjustment of Padder Pressure	2	6
	4.2	Adjustment of Trolleys	1	8
	4.3	Chemical Tarff Cleaning & Recipe Making	2	5
	4.4	Cleaning the Stretch Machine	1	6
	4.5	Guiding the Collar & Cuff through Machine	2	7
	4.6	Guiding the Fabric	2	6
	4.7	Identification of Trolleys	1	6
	4.8	Placement of Trolleys in Proper way	2	7
	4.9	Placement of Trolleys on Turn Table	2	8
	4.10	Trolley Inspection for Stretching	2	2
	4.11	Stretching of Fabric	2	8
	4.12	Precautions during stretching	1	6
5.	Stenters Operations Procedures			
	5.1	Adjustment of padder pressure		15
	5.2	Bringing the chemicals		18
	5.3	Cleanliness of machine		18
	5.4	Feeding the pala		18
	5.5	How to prepare chemical		18
	5.6	On off machine		12
	5.7	Run lot on Stenters		11
6.	Compactors Operation Methods			
	6.1	Cleaning of compactor		37
	6.2	Run the compactor		23
	6.3	Taking charge		10
7.	Raising and Peaching			
	7.1	Feeding the fabric	2	10
	7.2	Running the machine	3	35
	7.3	Precautionary measures	3	35
	7.4	Off loading the Fabric	2	10
8.	Edge Sewing			
	8.1	Machine Maintenance		11
	8.2	Cleanliness of machine		13
	8.3	Eye testing		11
	8.4	Safety issues		15
9.	Functional English		20	20
10.	Work Ethics		0	20
Total				641

LIST OF PRACTICALS

1. Slitting Procedures
2. Hydro Procedures
3. Stretching Procedures
4. Stenters Operations Procedures
5. Compactors Operation Methods
6. Raising and Peaching

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LIST OF LABS

**Fabric Finishing Expert Course
(6-Months)**

1. Wet Testing Lab
2. Dry Testing Lab
3. Lab Scale Production

19-11-2015



LIST OF TOOLS AND EQUIPMENT
FOR CLASS OF 25

Name of Trade	Fabric Finishing Expert
Duration of Course	(6-Months)

S. No.	Name of Tools/Equipments	Quantity
1	Stretches	2
2	Dryers	3
3	Compactors	1
4	Slitting	2
5	Stenters	1
6	Peaching	1
7	Raising	1
8	Edge sewing	2

FURNITURE

S. No.	Name of Article	Quantity
1.	Working bench	12
2.	Wooden stool (for students)	30
3.	Chair for teacher	02
4.	White board (3 ½ x 5ft) with stand	01
5.	Wooden Almirah (4 x 7 ft)	04
6.	Instructor table with 2 drawers	01

LIST OF CONSUMABLE MATERIALS

FOR CLASS OF 25

**Fabric Finishing Expert Course
(6-Months)**

List of Consumable Materials

S.No	Material	Quantity
1	Chemicals / Finishing Material	As per requirement
2	Fabric	As per requirement

MINIMUM QUALIFICATION OF INSTRUCTOR

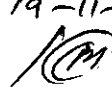
- Bachelor of Engineering in Textile with 5 years in same field.

OR

- Three Years Diploma Holder with 8 Years Experience

REFERENCE BOOKS

1. Practical Dyeing by James Park (Author), John Shore (Author)
2. Basic principles of Textile Coloration (Arthur D Broadbent)
3. Finishing (Pietro Bellini, Ferruccio Bonetti, Ester Franzetti, giuseppe Rosace, Sergio Vago)
4. Knitting Technology: A comprehensive handbook and practical guide by David J. Spencer
5. Textile Design and Colour by Willian Watson

TEVTA
Date: 19-11-2015
Sign: 

EMPLOYABILITY OF PASS OUTS

The pass outs of this course may find job / employment opportunities in the following areas / sectors: -

1. Textile Manufacturing Organizations
2. Textile Mills

Curriculum Evaluation Committee

1. **Dr. Nabeel Amin,** **Convener**
Associate Professor,
School of Textile and Design, University of
Management and Technology,
C-II, Johar Town, Lahore-54770, Pakistan

2. **Mr. Malik Razaqat Ali,** **Member**
Sr. Manager (R & D)
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15-13 Eden Palace villas,
Raiwind Road Lahore

3. **Mr. Ali Ashraf,** **Member**
Sr. Assist Manager (Product Development),
US Apparel (Pvt.) Ltd. Unit # 3,
C/O Al-Hafiz Karyana & Genral Store Main Street,
New Islam pura,
Toba Tek Singh.

Dec 19-11-2015
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