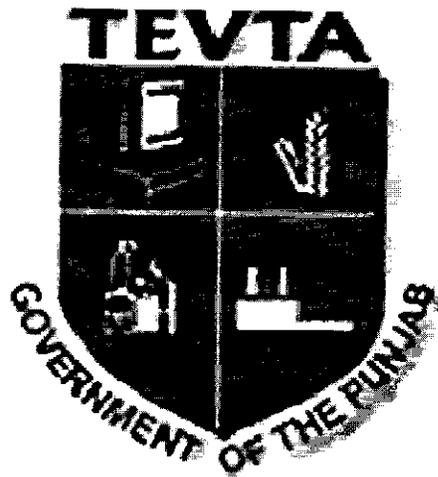


GOVERNMENT OF THE PUNJAB  
TECHNICAL EDUCATION & VOCATIONAL  
TRAINING AUTHORITY



CURRICULUM FOR  
**Fabric Quality Inspector**

(3 – Months Course)  
Evaluated November, 2015

CURRICULUM SECTION  
**ACADEMICS DEPARTMENT**

96-H, GULBERG-II, LAHORE  
Ph # 042-99263055-9, 99263064  
[gm.acad@tevta.gop.pk](mailto:gm.acad@tevta.gop.pk), [manager.cur@tevta.gop.pk](mailto:manager.cur@tevta.gop.pk)

19-11-2018

## Fabric Quality Inspector Course (3- Months)

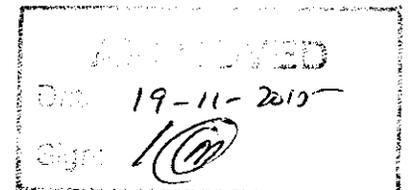
### TRAINING OBJECTIVES

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

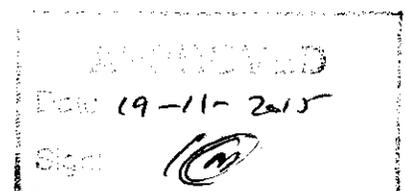
Name of course	:	Fabric Quality Inspector
Entry Level	:	Matric
Duration of Course	:	3 – Months
Total Training Hrs	:	400 Hours
		40 Hours per week
		6 days per week
		7 Hours daily except Friday 5 Hours
Training Methodology:		Practical 80%
	:	Theory 20%
Medium of Instruction:		Urdu/English



**SKILL COMPETENCY DETAILS**

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

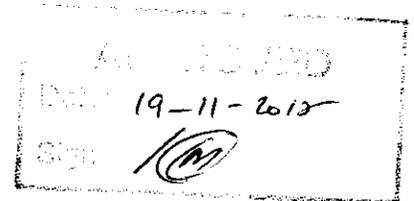
1. Quality Inspection
2. Quality Observation (During Process)
3. Handling of several types of fabrics
4. Fabric Expert
5. Color matching
6. Grading of Fabric
7. Inspection Calculations
8. Fire fighting
9. Emergency Handling



**KNOWLEDGE PROFICIENCY DETAILS**

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

1. Quality Inspection process
2. Quality Observation process
3. Fabric handling expertise
4. Color matching procedure
5. Grading of Fabric procedure
6. Inspection calculations methodology
7. Safety precautions
8. First Aid Method



**CURRICULUM DELIVERY STRUCTURE**

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

APPROVED  
Date: 19-11-2015  
Sign: 

**SCHEME OF STUDIES**  
**Fabric Quality Inspector Course**  
**(3-Months)**

S.No	Main Topics	Theory Hours	Practical Hours	Total Hours
1.	Basic Theory of Quality	18	0	18
2.	Fabric Inspection And Grading Process	6	20	26
3.	Color Coding Grading System	6	18	24
4.	Work Flow	6	24	30
5.	Processing Qc Activities Grid	6	18	24
6.	QC Resource Planning (QRP)	24	224	248
7.	Snapshot Of Tackling The Rolls Regarding Inspection	2	16	18
8.	Work Ethics	12		12
Total		80	320	400

APPROVED  
Date: 19-11-2015  
Sign: 

**Detail of Course Contents**  
**Fabric Quality Inspector Course**  
**(3-Months)**

<b>1.</b>	<b>Basic Theory of Quality</b> 1.1 Quality Control Concept 1.2 Quality Assurance Concept 1.3 QMS management System 1.4 Health & Safety Instruction	18	
<b>2.</b>	<b>Fabric Inspection and Grading Process</b> 2.1 Quality Control & its System in Apparel Industry 2.1.1 Four (4) Point System 2.1.2 Ten (10) Point System 2.1.3 Gravite Ville "78" 2.1.4 Dallas System 2.2 Packing & Dispatch	6	20
<b>3.</b>	<b>Color Coding Grading System</b> 3.1 Inspection for Pre- Production 3.1.1 Fabric Construction (Density & Design) 3.1.2 Shade Matching 3.1.3 Fabric Holes 3.1.4 Vertical & Horizontal Stripes 3.1.5 Softness, Shrinkage 3.1.6 Matching of Rips, Colors and Cuffs 3.1.7 Yarn Defects etc. 3.1.8 Dirt & Stains 3.1.9 Dyeing levelness	6	18
<b>4.</b>	<b>Work Flow</b> 4.1 Quality Control Process Flow 4.1.1 Flow to create checkpoints 4.1.2 What is Process flow 4.1.3 Check Points 4.1.4 Standards for Critical, General and Special Checkpoint	6	24
<b>5.</b>	<b>Processing QC Activities Grid</b> 5.1 During Production Inspection System 5.1.1 Fabric Defects 5.1.2 Collar & Cuff Matching 5.1.3 Stitch Defects 5.1.4 Diet & Stains 5.1.5 Pattern, Shades, GSM & Trims Inspection	6	18
<b>6.</b>	<b>QC Resource Planning (QRP)</b> 6.1 Defects Standards for Fabric, Sewing & Measurements 6.1.1 Fabric 6.1.1.1 Uneven dyeing 6.1.1.2 Holes 6.1.1.3 Wrong Shades	24	224

19-11-2015  
Sign: 

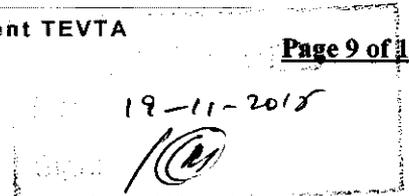
**Fabric Quality Inspector Course (3- Months)**

	6.1.1.4 Thick & Thin Places 6.1.1.5 Dirt & Stains 6.1.1.6 Oil Stains 6.1.1.7 Softness 6.1.1.8 Higher Shrinkage 6.2.1 Sewing Defects 6.2.1.1 Needle Hole & Marks 6.2.1.2 Unbalanced Sleeves & Edges 6.2.1.3 Unbalanced Placket 6.2.1.4 Open Seam 6.2.1.5 Puckering 6.2.1.6 Incorrect Side Shape 6.2.1.7 Incorrect Appearance 6.3.1 Measurements 6.3.1.1 Shade variation with Galmett 6.3.1.2 Defective Punting 6.3.1.3 Defective Embroidery 6.3.1.4 Defective Buttons		
<b>7.</b>	<b>Snapshot of Tackling the rolls regarding inspection</b>	<b>2</b>	<b>16</b>
<b>8.</b>	<b>Work Ethics</b>	<b>12</b>	
<b>Total</b>			<b>32</b>

Date 19-11-2015  
 Sign 

**LIST OF PRACTICALS**

1. Color Coding Grading System
2. Shade Matching
3. Fabric Holes
4. Vertical & Horizontal Stripes
5. Softness, Shrinkage
6. Matching of Rips, Colors and Cuffs
7. Yarn Defects Evaluation
8. Dirt & Stains
9. Dyeing levelness evaluation and remedial techniques
10. Quality Control Process Flow
11. During Production Inspection System
12. Fabric Defects evaluation and grading
13. Collar & Cuff Matching
14. Stitch Defects
15. Dirt & Stains
16. Pattern, Shades, GSM & Trims Inspection
17. Defects Standards for Fabric, Sewing & Measurements
18. Uneven dyeing
19. Holes
20. Wrong Shades
21. Thick & Thin Places
22. Dirt & Stains
23. Oil Stains
24. Softness
25. Higher Shrinkage
26. Sewing Defects
27. Needle Hole & Marks
28. Unbalanced Sleeves & Edges
29. Unbalanced Placket Evaluation
30. Open Seam Analysis
31. Puckering Analysis and remedy
32. Incorrect Side Shape Evaluation
33. Incorrect Appearance Evaluation
34. Measurements of various parts
35. Shade variation with Galmett
36. Defective Punting
37. Embroidery Faults Evaluation Method
38. Defective Buttons Analysis



**LIST OF LABS**  
**Fabric Quality Inspector Course**  
**(3-Months)**

1. Fabric Inspection Lab
2. Production Flow Quality System
3. Fabric Testing Lab (dry and wet)

19-11-2015  
/ @

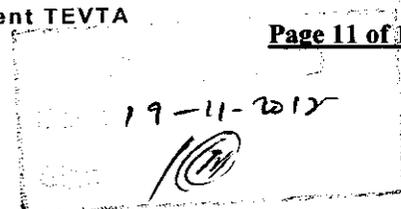
**LIST OF TOOLS AND EQUIPMENT**  
**FOR CLASS OF 25**

Name of Trade	Fabric Quality Inspector Course
Duration of Course	(3-Months)

S.No	Nomenclature of Equipment/Tools	Quantity
1	Inspection Tables	1
2	Dispenser	1
3	Scissors	10
4	GSM Cutters	1
5	Light Boxes	1

**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.	Steel Almirah (4 x 7 ft)	04
6.	Instructor table with 3 drawers	01



**LIST OF CONSUMABLE MATERIALS**

**FOR CLASS OF 25**

**Fabric Quality Inspector Course  
(3-Months)**

List of Consumable Materials

S.No	Material	Quantity
1	Fabric	As per requirement
2	CRM for testing	As per requirement
3	Fabric Production Accessories and Materials	As per requirement

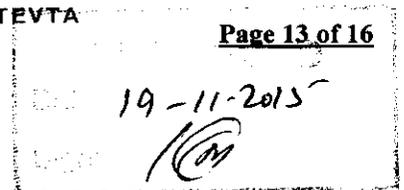
19-11-2015  
②

**MINIMUM QUALIFICATION OF INSTRUCTOR**

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

OR

- Three Years Diploma Holder in textile weaving with 8 years experience



**REFERENCE BOOKS**

1. Knitting (*Alberto M. Sacchi, President of the ACIMIT Foundation*)
2. Basic principles of Textile Coloration (Arthur D Broadbent)
3. Finishing (Pietro Bellini, Ferruccio Bonetti, Ester Franzetti, giuseppe Rosace, Sergio Vago)
4. Fundamentals and Advances in Knitting Technology *Author(s): Sadhan Chandra Ray*
5. Knitting Technology: A comprehensive handbook and practical guide by David J. Spencer
6. Textile Design and Colour by Willian Watson

19-11-2015  
①

**EMPLOYABILITY OF PASS OUTS**

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

1. Quality Control
2. Fabrication
3. Inspection of Fabric
4. Textile Manufacturing Company
5. Home Textiles
6. Private Boutiques
7. Apparel Company

19-11-2015  
/ @

**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. **Mohammad Bilal,** **Member**  
Assistant Professor,  
National Textile University Faisalabad  
125-B, Peoples Colony No. 2,  
Muslim Park, Faisalabad
  
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.

19-11-2015

