

Five Day Workshop for Fully Fashioned Garment Knitting Technology

Philosophy

This training workshop is designed to further train the students of Knitwear Designing Course as an out of the box solution to the Industry and not just prepare them to get further training in the Industry. Fully Fashioned Flat Knit Garments are conceived and manufactured in an entirely different way and this workshop is designed to prepare the students to take head on the challenges of the industry.

Workshop Rationale

Flat Knit garments are becoming more acceptable as a daily wear garment because casual clothing even at work is being largely accepted by society. The trends of the formal clothing are going down, the sportswear remains at the same level whereas business and casual clothing are becoming more and more accepted. Following this trend, the garment designers have started working on flat knit garments especially on fully fashioned knitwear and these are finding a well-deserved platform on the fashion scene.

The Workshop will allow the students to understand the practical aspects & functioning of the knitwear industry, understand design application commercially, acquire communication skills, time management and leadership qualities so as to work professionally.

The physical features of a garment that determine its performance are:

- Design
- Material
- Construction
- Finish

The performance features are:

- Aesthetic
- Functional performance

To knit a sweater that fits well, the designer must understand all the points mentioned above and formulate the manufacturing process that satisfies all the desired properties. The raw material selection, the size specifications arrived at by using the right ease factor, the functional property demands, the right technique and the right equipment, all need careful planning.

Workshop Objectives

The real challenge of Sweater manufacturing is to integrate the four different systems that are involved in the manufacturing process; the Designing Concept, the Knitting Machine Programming, the Actual Knitting Operation and the subsequent Making Up and Finishing processes.

A good designer is the one who has in-depth knowledge of the conceptualization of an idea into a workable design, ideally, they are the ones also trained for creating the patterns and the size charts.

This workshop is an attempt to make the reader clearly understand the theory, the technique and the fundamental rules for making a perfect fit flatbed knitted garment using fully fashion technique. It is an attempt to transform the empirical knowledge of pattern drafting of fully fashion flat knit garments into a methodical procedure.

Workshop Structure

Day 1	
Morning Session	Introduction, briefing of the course contents
Break	
Pre Lunch Session	Knitting Techniques used in Flat Knit Garments
Lunch Break	
Post Lunch Session	Kinds of Knitted Garments
Break	
Evening Session	Types of Fully Fashioned garments
Closing Session	Question Answers
Day 2	
Morning Session	The geometry of a Fully Fashioned Sweater
Break	
Pre Lunch Session	The geometry of a Fully Fashioned Sweater cont.
Lunch Break	
Post Lunch Session	Understanding the Points of Measurement
Break	
Evening Session	Body Measurement
Closing Session	Question Answers
Day 3	
Morning Session	Fully Fashioned styles and the ease factor
Break	
Pre Lunch Session	Grading Principles
Lunch Break	
Post Lunch Session	Size Set
Break	
Evening Session	Pattern Drafting Set In Sleeve
Closing Session	Question Answers
Day 4	

Morning Session	Pattern Drafting Raglan Sleeve
Break	
Pre Lunch Session	Pattern Drafting Classic Shoulder
Lunch Break	
Post Lunch Session	Knit Data Preparation
Break	
Evening Session	Calibration of Machines
Closing Session	Question Answers
Day 5	
Morning Session	The Making Up Techniques
Break	
Pre Lunch Session	The Making Up Techniques
Lunch Break	
Post Lunch Session	Finishing of the Garment
Break	Quality Control Procedures
Evening Session	Finishing of the Garment
Closing Session	Question Answers and Feed Back from Students

Who is it for

The Workshop is designed for Final year students of Three / Four Year Knitwear Designing Diploma / Degree Course. The best time to conduct this workshop shall be in the penultimate or final semester.

Minimum and Maximum Number of Participants

The minimum number of students desirable to hold this workshop is twenty and maximum number of the students shall not exceed thirty-five.

Course Material

Students attending this workshop shall be provided with the study material kit.

Bio Data of the Tutor

SUNIL KUMAR PURI



Contact Details

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Ludhiana 141004 India

Present Address:

Same as above

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SUMMARY

Have worked extensively in Knitwear companies as Technical Director, Mentor and Project Director for Product Development, Total Quality Management, and Training of Personnel and have achieved excellent results by applying process redesign.

Have written a manual for **“THE AUSTRALIAN WOOL INNOVATION” OF AUSTRALIA ON MANUFACTURING OF FULLY-FASHIONED SWEATER FOR THEIR TRAINING PURPOSE.** Currently also writing a book on Sweater Manufacturing titled **"A GUIDE TO FULLY FASHIONED SWEATER MANUFACTURING"** being published by Woodhead Publishing Pvt. Ltd.

Have made excel sheets and Apps that make knit data charts for any style any size set in one go. With these Knit data Sheets it is possible to the proto sample and the size sets with right measurements in first go.

Have got knitting companies ISO 9000 certified and two companies certified for GOTS to manufacture Organic Cotton Knitwear. Have the capability to get a company Socially Compliant.

Have worked as an agent for Universal and Stoll and garment machinery manufacturers for the Indian market for twenty-five years. Know many knitted garment manufacturers, know the complete process of garmenting. Have trained many operators, technicians for knitting machines.

Did extensive marketing and training of Indian technicians to be able to operate these sophisticated machines. Sold many machines and trained many operators and technicians in India.

Was the director of a fashion institute "Sportking Institute of Fashion Technology" in collaboration with "Pearl Academy of Fashion". Taught Applied Mechanics, Line Balancing, Foreign Trade, Textile Finishing, Advanced Knitting and Knitwear Pattern Making and Retail Math. Wrote the curriculum for the one-year postgraduate program in Fashion Retail. Also, authored a book of Introduction to Retail Math with case studies on Garment Retailing.

COMPUTER SKILLS

2. Languages

Visual Basic

Software

CAD for Pattern Making for garments, Corel Draw, Photoshop, MS Office, can do wonders with Excel. Can use Excel as a database, can create dashboards that make an analysis of data, a child's play. Can make excellent presentations and create a database in Access. Can make production control software as per company's requirement.

EXPERIENCE

August 1983 – September
1989 (6 years 2 months)

M.D.
Knitsew International Pvt. Ltd.

Formed this company acted as Managing Director and started doing the business of selling Computerised Flat Knitting Machines manufactured by M/s Universal Macshinenfabrik GmbH & Co. of West Germany. Acted as their sole agents for the whole of India. Also represented Circular Knitting Machinery Manufacturer M/s Terrot of W. Germany. Sold the first Computerised Knitting Machine in India and more than 300 machines. Trained hundreds of technicians to operate these machines.

October 1989 –
Present (24 years 11
months)

M.D.
Techknit Overseas Pvt. Ltd.

Techknit Overseas Pvt. Ltd.

Resigned for Knitsew Directorship and formed this company. Became a Sole agent of M/s H. Stoll GmbH & Co. the biggest Manufacturer of Computerised Flat Knitting Machines Manufacturer in the world, for the Indian market. Did extensive marketing and training of Indian technicians to be able to operate these sophisticated machines. Sold many machines and trained more than 200 operators and technicians in India. In 2001 won Arch of Europe Award for Excellence in Technical Field.

Currently working as project consultants for Knitwear Companies for Total Quality Management, and running of new manufacturing companies.

2007 – 2010 (3 years)

EXECUTIVE DIRECTOR
SPORTKING INSTITUTE OF FASHION TECHNOLOGY

Was responsible for managing the affairs of the institute, curriculum development, continual improvement for curriculum, quality systems, and to keep the team motivated for excellence.

2010 – 2012

Technical Director
Keshav Knitwear Ltd. Noida India

Looked after the entire production, Quality Control and Product Development for the entire operations of the company

2012 – 2015

Mentor
B. R. Knitwears Pvt. Ltd. Gurgaon India

Advisor: Quality Controls, Product Development, Marketing and Production Methods and Controls.

2015 – Jan- 2018

Project Director
Tricot Industries Pvt. Ltd.

Responsible for total control of the company, working as a head of the entire operations. The company is engaged in manufacturing and export of high quality high priced Cashmere outerwear and accessories. We work with very expensive yarns and therefore we have to be very careful with our raw material orders and have to control and keep wastage below 2%.

EDUCATION

1970-1974

B. Text. Spinning Knitting and Total Quality Management
1970 – 1974
Technological Institute of Textiles

***B.Text with specialization in Spinning
Activities and Societies:***

Was a member of Table Tennis team, Dramatics club and Musical Society. Won many awards at Regional Youth Festivals. Our Table Tennis team placed third in Punjab University. While in Govt. College for Boys Ludhiana was adjudged best swimmer for three years.

2008

Expert Rating

Certificate Course TQM, TQM, Merit

2008 – 2008

Expert Rating

Certificate Course Lean Sigma, Lean Sigma, Merit

2008 – 2008

Expert Rating

Certificate Course Kaizen, Kaizen, Merit

2008 – 2008

Expert Rating

2009-2010

Certificate Course Lean Management, Merit

2008 – 2008

M.Sc. (Total Quality Management)

The Global Open University of Nagaland

2009- 2010

2009

BSI

Lead Auditor ISO 9001:2008, QMS

2009 – 2009

Lead Auditor Course

Activities and Societies: IRCA Lead Auditor ISO 9001:2008

Publications:

Books Published

Puri, S. 2009. Introduction to Retail Math. New Delhi. Dhanpat Rai Publishing Company Pvt. Ltd.

Book Under Publishing

Puri, S. 2018. Guide to Fully-Fashioned Sweater Manufacturing. New Delhi. Woodhead Publishing India Pvt. Ltd.

Manuals and Guides

Puri, S, 2007. Grades Guide for Stoll CMS Knitting Machine Operators, Sportking Institute of Fashion Technology, Ludhiana

Puri, S. 2011. Grade guide for Sewing Machinery Operators, Apex Cluster Development Services, New Delhi.

Puri, S. 2015. Knitwear Manufacturing Technology For Fully Fashioned Woollen Garments, Australian Wool Innovation Ltd. Sydney.

List of Article available on Websites

Puri, S. 2010. The Geometry of the Fully Fashioned Sweater, [Online] available at <https://www.knittingindustry.com/the-geometry-of-the-fully-fashion-sweater/> [Accessed 30th April 2010].

Puri, S. 2010. Decision Making Tools-Production Order Decision Making With Multiple Product Choice and Constraints [Online] available at Puri, S. 2010. The Geometry of the Fully Fashioned Sweater, [Online] available at <https://www.scribd.com/document/38869524/Decision-Making-Tools-Production-Order-Decision-Making-With-Multiple-Product-Choice-and-Constraints> [Accessed 7th October 2010].

List of Publications in Journals and Magazines

Puri, S. 2010. Decision-Making Tools: Sequencing of Manufacturing Process, Hosiery and Textile Journal, Vol 78 Issue March- April, pp 16-20.

Puri, S. 2010. Decision-Making Tools: The Emphasis Curve, Hosiery and Textile Journal, Vol 78 Issue May-June, pp 18-20.

Puri, S. 2010. Decision-Making Tools: Sequencing of Manufacturing Process, Hosiery and Textile Journal, Vol 78 Issue July-August, pp 10-15.

Puri, S. 2010. Perfect Joins. Knitting International, Vol 116 No 1382, pp,32-34.

Puri, S. 2010. Armhole Know-how. Knitting International, Vol 116 No 1383, pp,38-39.

Puri, S. 2011. Stitch Quality Control on a Flat Bed Knitting Machine. ATA Journal for Asia on Textiles & Apparel, Vol 22 No 1, pp, 28,29 & 33.

Puri, S. 2011. Do we need Rocket Science to make Sweaters. March 2011, Perfect Sourcing.

Puri, S. 2011. Equipping Needles for Knitting Process. ATA Journal for Asia on Textiles & Apparel, Vol 22 No 4, pp, 91& 92.

Puri, S. 2012. Reducing Lead Times by adopting Knit and Wear Machines. ATA Journal for Asia on Textiles & Apparel Vol 23 No 1, pp, 46 & 47.

Puri, S. 2010. Decision Making Tools the Emphasis Curve [Online] available at Puri, S. 2010. The Geometry of the Fully Fashioned Sweater, [Online] available at <https://www.scribd.com/document/38873078/Decision-Making-Tools-the-Emphasis-Curve> [Accessed 7th October 2010].

Puri, S. 2010. Decision Making Tools Sequencing of Manufacturing Process [Online] available at Puri, S. 2010. The Geometry of the Fully Fashioned Sweater, [Online] available at <https://www.scribd.com/document/38873076/Decision-Making-Tools-Sequencing-of-Manufacturing-Process> [Accessed 7th October 2010].

Puri, S. 2010. Decision Making Tools Evaluating Vendor Performance [Online] available at Puri, S. 2010. The Geometry of the Fully Fashioned Sweater, [Online] available at <https://www.scribd.com/document/38873073/Decision-Making-Tools-Evaluating-Vendor-Performance> [Accessed 7th October 2010].

Puri, S. 2010. Sweater Geometry [Online] available at Puri, S. 2010. The Geometry of the Fully Fashioned Sweater, [Online] available at <https://www.scribd.com/document/38938784/Sweater-Geometry> [Accessed 8th October 2010].

Presentations and Lectures

Puri, S. 2009, Automation in the Apparel Industry

Puri, S. 2009, Knitwear Designing

Dissertations

Puri, S. 2010 Improving Quality through the Total Quality Approach in a Knitwear Company. M.Sc [Total Quality Management], The Global Open University of Nagaland, India

Industry Projects:

- **Application of Lean Six Sigma by TechKnit to Delight Customers.**
- **Root Cause Analysis using Ishikawa Fishbone Analysis.**
- **And many more**

Working Experience: Forty-Two years.

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Skype ID: sunilkumarpuri

Current Company Activity:

The Company provides consultancy to Knitted garment manufacturing companies on how to make Knitted garments right first time and every time, on how to reduce rework, how to achieve better production and quality through process re-engineering.

Current location: Ludhiana , India

Fee of the Workshop

The Fee of the workshop shall be U S Dollar 75 or Euro 65 per Student, in case the minimum number of twenty students is not met the minimum charges of the workshop shall be USD 1500 or Euro 1300. The institute shall also provide the tutor to and from air ticket as well as boarding and loddeging for five nights.

Confirmation of the Workshop

The institute shall confirm the dates for the workshop as per availability minimum fifteen days in advance. The letter of confirmation shall be accompanied with minimum thirty percent advance. Forty percent shall be payable at least a week before the workshop and the balance 30% shall be payable at the conclusion of the workshop.