

**2009**

## **Xperts Training Programme**

Xperts Textiles Training Network 2008-2009



- **Training Courses & Seminars**
  - **In-Company Training**
  - **WTO Compliances**



Primary Business Address  
D-32, Block-7,  
Gulshan-e-Iqbal,  
Karachi-75300

Phone: 092-21-4973151  
Fax: 092-21-4973150

ISO-Xpert was founded in 1997 in Pakistan. Initially, our Company was recognized as a specialist in ISO 9000 Quality Management System consulting, serving multinational corporations, major local organizations, as well as Small and Medium Enterprises (SME's).

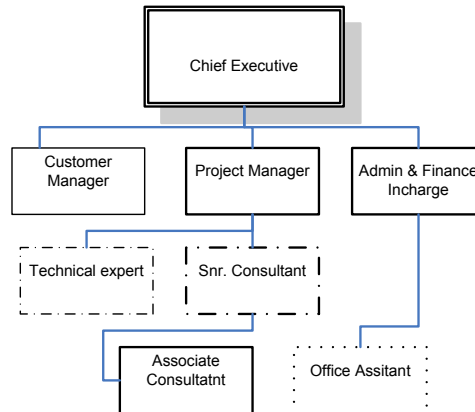
Today, ISO-Xpert and Technical Experts has been developed as a provider of multi-disciplinary professional services.

We have served over 100 clients who are in the fields of textiles, leather, information technology, architects, engineering, building construction, health & medical, trading, pharmaceutical, chemicals, cement, transportation, oil & petroleum, manufacturing, printing, banking & finance, buying house, shipping, labs and Government organizations.

The Management Consultancy Services of ISO-Xpert helps clients maximize their business performance by integrating internationally recognized management models, business process innovations and performance enhancements.

Drawing on the knowledge and skills of qualified professionals, we help our clients solve complex business problems and upgrade their management skills and systems.

### ISO-Xpert Organoogram



## ISO-Xpert Short Client List

A.H. International  
 Abbas Dyeing (Denim)  
 Afroze Textile Mills  
 Ahmed Textile & General Mills  
 Al-Abid Silk Mills Limited  
 Al-Awwal International  
 Al-Abbas Fabrics (Pvt) Limited  
 Al-Shirkat Industries  
 Asad Containers (Pvt) Limited  
 Bari Mills (M.Y.M.Y. BARI)  
 Bazi Knitwear  
 Bismillah Fabrics  
 Bita Textile Corporation  
 Chemitex International  
 Chottani Industries  
 Commodities and Textiles Pvt. Ltd  
 Dry – X (Pvt.) Limited  
 Essatex Industries  
 Fashion Art International  
 Geneva Thread  
 Idrees Printers (Pvt) Ltd  
 International Textile  
 KAM International (Pvt.) Limited  
 KBI Textile Mills Ltd  
 Knit Time  
 Lakhani Silk Mills  
 Lotus Textiles Limited  
 M. Hanif Industries  
 Mass Apparel & Fabrics  
 MekoTex (Pvt.) Limited  
 Moon Light Hosiery & Process  
 MSC Textile (Pvt.) Limited (Faisalabad)  
 Nadia Textile (Karachi)  
 Naveena Export  
 Shekhani Industries  
 Silver Textile  
 Sine International (Pvt.) Limited  
 Syntech Fibres (Pvt) Ltd  
 Vital (Pvt) Ltd

A One Textile Industries  
 Abdullah Apparels  
 Al-Wakeel (Pvt.) Limited  
 Ali Mutaza Associates (Pvt.) Limited  
 Alpha Tex  
 Amsons (Pvt) limited  
 Anwar Garments  
 Anwar Industries  
 Ayub Textiles  
 Bil Exporters  
 Casual Mode (Pvt) Limited  
 Crown Textile  
 Double 'A' International  
 Faizan Shahzad (Pvt) Limited (Faisalabad)  
 FNZ Apparel (Pvt.) Limited  
 Global Exports  
 Grace Knitwear (Pvt) Ltd  
 Hassan Industries  
 International Textile  
 M. K. International  
 Nadia Textiles International (Lahore)  
 Naeem Enterprise  
 PAK Azmat Garments  
 Parsons Industries (Pvt) Limited  
 Prestige Apparel  
 Rahman Industries (Pvt) Limited  
 Sajid Textiles Industries  
 Saleem Textile  
 Sana's Garments  
 ScanTex Private Limited  
 South Asia Textile Industries  
 Sundus Dyeing Industries  
 Super Fashions (Pvt) Limited  
 Surat Apparel  
 T.M. Exports  
 Vision Apparel  
 Zafar Industries

Order Form Title

Item #	Description	Price	Subtotal

Order total: \_\_\_\_\_  
 Tax: \_\_\_\_\_  
 Shipping: \_\_\_\_\_  
 Total: \_\_\_\_\_

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Phone \_\_\_\_\_

Method of Payment

- Check
- Bill Me
- Visa
- MasterCard
- American Express

Credit Card # \_\_\_\_\_ Exp. date \_\_\_\_\_  
 Signature \_\_\_\_\_

Table of Contents

<b>General Textiles</b>	<b>5</b>
Introduction to Textile Technology	6
Fiber & Yarn	7
Fabric (Knitted & Woven)	10
Color , Wet Processing & Finishing	11
<b>Textile Quality Control &amp; Assurance</b>	<b>8</b>
Overview on QC & QA	8
Textile Quality Control Parameters & Faults	8
7 SPC Tools in Textiles	8
<b>Textile Testing &amp; Analysis</b>	<b>11</b>
Yarn Evaluation	11
Fabric & End Product Evaluation	11
<b>WTO COMPLIANCE COURSE</b>	<b>12</b>
Textile Technical Regulations & Norms	13

<b>Textile Eco Labeling Scheme</b>	<b>14</b>
Textile Eco-Labeling (Eco-Labeling)	14
Pakistan Environmental Laws (NEQS)	15
Local Law & System Certification	15
<b>Textile Social Compliances</b>	<b>16</b>
Pakistan Factory Act and Labor Laws	16
WRAP/AVE/BRC/SA 8000/ILO	16
<b>Textile Operations Management</b>	<b>17</b>
Product Design	18
Planning the Production Process	18
Design Job & Work	18
Managing the Supply Chain	18
Textile Forecasting	19
Production Planning & Control	19
<b>Supply Chain Management</b>	<b>20</b>
C-TPAT Certification Overview	20
Security Management System	21
C-TPAT Documentation requirements	21

## SCM

### C-TPAT Awareness

**Description:** Course will provide employees of a company that has applied for membership in C-TPAT with a fundamental understanding of the "US Customs Trade-Partnership Against Terrorism (C-TPAT)"

**Targeted Learners:** Course is targeted at all personnel in Operations, Logistics, Trucking & Dispatch, Documentation, Purchasing and the Import Department of the US Importer and all other personnel in the Supply Chain that are involved at any point in an import for the company.

**Objective:** Course is to familiarize you with the following fundamental concepts:

- Overview of C-TPAT
- Eligibility
- Membership Benefits
- Program Commitments (Business & Customs)
- Application Instructions & Process Steps
- C-TPAT Agreement
- The Supply Chain Security Profile Questionnaire
- Security Recommendations

### Supply Chain Security Awareness

**Description:** The course will provide employees an overview of the types of terrorist threats and areas of exposure in the company's Supply Chain. It also discusses the most common vulnerabilities in the Supply Chain in general.

**Targeted Learners:** Course is targeted at all personnel involved in any way in International Trade. It is one of the two basic and fundamental course for C-TPAT.

**Objective:** A complete awareness on terrorism for every step in the supply chain.

### C-TPAT Documentation Requirements

**Description:** The course will define documentation requirements for customs brokers, Carrier & Foreign Manufacturer.

**Targeted Learners:** Course is targeted at all personnel involved in Seaport and Airport Operations, Traffic, Documentation, Customer Service, and Sales for the Sea Carriers, Air Carriers, It should also be taken by any personnel in the Export Departments for the Manufacturers, Overseas Warehouses, Overseas Freight Forwarders, Land, Sea, and Air Carriers.

**Objective:** Familiarization and review of critical elements of the New US Customs regulations.



C-TPAT  
CERTIFICATION



#### C-TPAT Awareness

USA has imposed a new custom Trade Partnership Agreement Against Terrorism requirements in wake of 9/11 disaster. Applicable to all exporter / manufacturer related to textile and non-textile trade.

#### Supply Chain Security Awareness

The course will provide employees an overview of the types of terrorist threats and areas of exposure in the company's Supply Chain. It also discusses the most common vulnerabilities in the Supply Chain in general.

#### C-TPAT Documentation Requirements

The course will define documentation requirements for customs brokers, Carrier & Foreign Manufacturer.

## Textile Xperts Courses

Our aim is to support the textile, clothing and related industries' training needs, be they manufacturing, sourcing, retailing, buying, merchandising or administration. The Xperts Textile Training Program operates in a number of different modes as detailed below.

### Short Courses

Our large portfolio of courses is designed to provide training from one to five days in duration depending on the subject matter involved. These are prepared courses, where the syllabus for each is prescribed and the courses taught to the formats listed.

### Conference & Seminars

A number of conferences and seminars focused on specific areas of the Network's basic activities are arranged each year.

### In-Company Training

For a variety of reasons, some companies prefer their training programmes in-house e.g.:

- Some companies like to take advan-



tage of the cost-effectiveness of in-company training, especially where there is a need to train a number of delegates at the same time.

- Confidentiality of sensitive information
- Environment familiar to all delegates

In-company training provides the following benefits:

- Expert advice on all aspects of training
- Hassle-free training at your own or specified venues
- Cost effective for large numbers
- Tailored programmes to satisfy your training needs
- Programmes designed to impact on performance and improvements in the workplace.

## Textiles Overview

This programme is intended for new entrants to the textile industry. They may be graduates in other disciplines requiring an induction course in textiles and manufacturing, administrative staff who need an understanding of textiles and the industry, or those engaged in the retailing, clothing, laundry and distributive trades who work with textiles or in association with textile organizations. It will give a general overview of the textile chain from fiber to finished fabric.

### Course Content - 2 DAYS

- natural and man made fibers
- properties in relation to end use
- fibers to yarns, filaments
- knitted, woven and nonwoven fabrics
- dyeing and printing
- finishes
- textile testing

FEE: Rs. 5000/-

## 5 Days of Textiles Technology Course

This course has been designed to give substantial and extensive knowledge of textiles and their manufacturing sequence from fibers through to the finished fabric. An extensive visit to see different aspects of textile manufacturing in operation is built into this course.

### Course Content – 5 Days

#### Day 1 – Fibers

markets, types, production, physical, chemical, morphological structures and identification

#### Day 2 – Fibers to yarns

fiber preparatory processes, carding, intermediate stage processing and spinning within the various systems. Filaments and their preparation

**Day 3 – Fabric** production and a visit. Woven, knitted structures, their production processes, design and analysis, advances and future trends

#### Day 4 – Preparation

preparatory processes for the different textile materials - dyeing, printing,

## Forecasting:

Once the physical facility and production process are in to produce a product or deliver a service, a host of planning decisions are required to determine how much to produce and when to produce it. These decisions are based on customer demand. Forecasting involves using a number of different methods and quantitative techniques to provide accurate estimates of demand, which are subsequently used to make production decisions.

## Production Planning:

Once management has determined how much product or service is needed to meet the demand, production schedules that involve a myriad of decisions are developed.

These decisions include how much material or how many parts of order, when material or parts should be ordered, how many workers to hire, and how these workers should be schedule on jobs and machines. Decision must also be ensure the amount of inventory available at each stage of the production process is sufficient to avoid un necessary delays and the amount of final

inventory is sufficient to meet customer demand. For service operations, the number of services required to serve customers in a timely manner must be established. Production planning represents a major area of decision making in operation management and includes the topics of capacity and aggregate production planning, inventory, management, material requirements planning, scheduling, just-in-time systems, service improvement and project planning.

**Objective:** To educate and create awareness of Operations management tool and technique in the textile industry. To understand & implement PDCA Cycle on job.

This course covers all the latest tool of operations management and includes interaction with software application of Operation management.

**Duration & fee:** On request the course can be customized .

## Operations Management Courses Description:

### Product Design

The traditional starting point in the production process is designing the product or service. Decisions related to design include converting customer requirements to product or service characteristics, determining the desired level of quality selecting materials, and evaluating the resulting production costs.

### Planning the Production Process

Once the product or service has been designed, the physical process that will produce the product or deliver the service must be constructed. Plans are developed for acquiring materials, determining the type of job skills, equipment, and technology required and managing the process.

### Designing Jobs and Work

A primary component of the production process is the work performed by people, alone, together or with machines and equipment. Human resources management is the area of Operations Management concerned with making sure that jobs meet the requirements of the production process in the most efficient and effective manner possible.

### Managing the Supply Chain

Once the production process and facility have been designed, decisions must be made regarding where to locate the facility in relation to customers and suppliers and how to manage the supply chain. A supply chain encompasses all the facilities, functions and activities involved in producing and delivering a product or service, from the suppliers (and their suppliers) to the customer (and their customers).

fastness, principles of coloration

### Day 5 – Finishing and finishes

finishing processes for the various textile materials, application of finishes for enhancement and performance

Fee: Rs.15000.00

## Textile Yarn & Fiber

### Introduction to Yarn Sizing

Sizing is a process for treating warp yarns as a method of enhancing production efficiency.

This course is designed as an introduction to the methods used in sizing, the application techniques and the faults associated with the process.

### Course Content - 1 Day

- fibers and yarns in sizing
- types of size
- sizing methods old and new
- sizing faults
- factors influencing sizing and weaving of sized yarns

Fee: 3000.00



## Fiber Identification & Testing

This course is suitable for all involved in textile handling who need a thorough grounding in textile materials and knowledge of identification procedures. 'Hands-on practice is included when delegates are invited to bring their own samples for identification.

### Course Content - 1 Day

- classification of textile materials
- broad outline of production methods of the main fibers
- physical and behavioral characteristics
- introduction to fiber structure
- fiber identification procedures using microscopic
- appearance, staining, chemical solubility and burning
- quantitative analysis & fiber testing

Fee: Rs. 5000/-

## Quality Control & Assurance

This course is designed for merchandiser, quality controllers and production staff who wants in depth knowledge of textile related standard, quality control tools and there application on various textile end products. It also helps to understand buyer compliance audit requirements .

### Course Content Day 1

- Quality & Textile Industry
- Textile Processes and there Inter-relationship
- Textile Product Life Cycle
- Quality & Quality Control
- Concept & Terms Definition (Quality Dimensions)
- Deference b/w Inspection / Testing
- Deference b/w Quality Control / Assurance
- Textile Related Standards
- Buyer Factory Audit Standard

### Textile Quality Control & Parameters & Faults in:

- **Yarn** (Specification, Testing / Inspection Method / Defects)
- **Fabric** (Knitted / Woven), Performance/Specs/Testing & Defect
- **Home Textile** (bed linen/towel)
- **Apparel** (Garment/infants)

### Course Content Day 2

#### Tools Of QC & QA: -

- Cost Of Quality
- Quality Analysis & Plan
- Quality Management / TQM
- Quality Circles
- Quality Awards & Certifications

#### 7 SPC Tools in Textiles: -

- What are the 7 Tools for Textile
- How these Tools are Applied in Textile Industries

## Textiles



- TEXTILE PRODUCT DEVELOPMENT
- PLANNING THE PRODUCTION PROCESS
- DESIGN JOB & WORK
- MANAGING THE SUPPLY CHAIN
- TEXTILES FORECASTING
- TEXTILE PRODUCTION PLANNING AND CONTROL

## SA-8000,OHSAS 18001,WRAP, AVE, BRC Certification

**Social Certifications**

Present day industrialists are faced with many problems: the investments do not give a proper return, the ever rising cost of living makes the employees to demand higher wages, and unions threatening action if their demands are not met. Beside these problems, a sizeable sum of money is needed to abide by the environmental laws. Industrialists have to find solutions to these problems if they are to sustain in business. Above are some of the pressures on industry from within the country.

Pressure from outside the country is much greater. Buyers have set standards for compliance for local manufacturers, especially exporters. If they do not meet these standards, they lose not only the credibility of the organization, but future orders too.

**Course Content**

- What is Social Compliances
- WTO Requirements on Social Compliances
- An Overview of Social Labeling Standard & Scheme
- Who ask for Social compliances

- Industry Wise Social compliances
- What are Laws Requirement & Compliances?
- Types of Social Labeling Standards
- World Market Demand & Recognition on Social Labeling
- Comparison b/w Social Labeling Standards:
- What is SA-8000, AVE & its Certification process
- What is OHSAS 18000, BRC & its Certification process
- What is WRAP & its Certification process
- What are the principles of each standard & Advantages?
- Certification Process & Validity (Example)
- What are the cost involve in each certification

**Introduction to Textile Testing**

This programme is designed to cover the testing and evaluation of textile yarns and fabrics in theory and by the analysis of testing results.

**Course Content - 2 Days****Day 1 – Introduction to textile yarn evaluation**

- Linear density
- Count / twist
- Regularity / strength
- Effect of moisture

**Day 2 – Introduction to fabrics and product evaluation**

Identification of their preparation system, woven, knitted, nonwoven fabric

- Fabric mass per unit area
- Construction and quality
- Fabric strip, tear, burst strength
- Abrasion resistance
- Pilling and snagging
- Creasing and bending

- Seam strength
  - Faults evaluated
  - Analysis and meaning of results
- Fee: Rs.5000/-

**Understanding Test Results**

The use of statistics in textile manufacturing is a sensible way of putting test results into perspective. Their use in monitoring and controlling production and so assuring quality is essential. The application of statistical analysis in drawing up and agreeing specifications saves money. Never agree to what you cannot reliably produce. This course has been designed to take the sting out of statistics, thus giving confidence in their use. Worked examples and models will be supplied along with full course notes.

**Course Content– 1 Day**

- **sampling**
- **important formulae**
- **frequency distribution**
- **process control**
- **production monitoring**
- **quality assurance**

Fee: Rs. 6000/-

## Practical Analysis Of Woven Fabrics

This course is designed for quality controllers, buyers and especially who need specialized information for fully understanding the construction of woven fabrics for full remake particulars.

### Course Content - 1 Day

- analysis of woven fabrics for their full remake particulars
- thread density, i.e. end and pick density
- importance and application of cover factor
- color and weave effects
- sett calculations

Fee: 5000/-



## Weaving And Woven Fabrics

This course is intended to introduce the basic principles of weaving and associated preparatory processes, and includes fabric construction, design and analysis, fabric faults and production efficiency in the modern woven textile environment.

### Course Content - 2 Days

- natural and man made fibers
- weaving terminology
- yarns for weaving and preparatory processes
- the loom, shedding mechanisms and weft insertion systems
- weave types & structures
- fabric construction and sett
- fabric types and faults in woven fabrics
- A visit to view weaving machinery is included.

Fee: 8000/-

## National Environment Quality Standard

### NEQS & Textiles

An insight into the first environmental regulation of Pakistan. The reasons why it was created and its implications on your line of business.

The course also covers the usual areas in your industry where the chances of default are likely with technological solutions that typically work. Pakistan EPA Act

### Factory Act 1934 & Pakistan Labor Law

An introduction to the factories act 1934 and the requirements that it puts on to issues such as work conditions, workers health and safety and the legal requirements that it imposes on to the Admin managers of manufacturing concern

## Textile System & Site Certifications

### Environment Management System & Site certification

An introductory course on the Environmental Management issues for companies that want to examine ISO 14001 Standard as a viable option to meet their environmental obligations to Government as well as foreign buyers.

### ISO 9000 & Quality Management System

For organizations whose management needs to be introduced to the ISO 9000 series of Quality Management Systems. The course covers all clauses of ISO 9000 latest standard in details and there implementation in the textile industry.

Objective: Understanding ISO 9000 standard requirements and Certification process in detail.

## Textile Product Certification

### Eco-Labeling

This course covers the core issue of Eco-Labeling demanded by western world for Textile and Leather products. Eco-Labeling Standard is a well recognized product certification standard, it is based on scientific research with allowable limits of hazards in textiles. In this course your management will be taught on the basic requirements in creating and understanding Eco-Labeling Standard and how to be awarded certification and what is Eco-Labeling and certification process.

### Course Contents —1 Day

- **Awareness on Eco-Labeling Scheme**
- Introduction to Eco-Labeling Standard program & Association
- An Over view of Eco-Labeling standard & world market.
- Requirement of Eco-Labeling standard
- Four Product Classes of Eco-Labeling Standard

### Eco-Labeling Certification Process

- Role of certification Body
- Eco-Labeling Testing & Certification Lab
- Eco-Labeling Re- Validation process
- Resource involvement and cost estimates
- How Eco-Labeling Certification will help in marketing?
- Sales volume wise break up
- Demographic clusters of demand product wise.
- Application Procedure & Quality System requirements
- Exercise on filling your company's Application form
- \* Sampling process
- Difference b/w Eco-Labeling & Other Eco-labeling standards.

## Preparation, Coloration And Finishing Of Textiles

This course will be of use to all those concerned with coloration - practitioners, designers, specifiers, retailers, buyers - and is aimed at providing a clear understanding of the principles of preparation, dyeing, printing and finishing.

### Course Content - 3 Days

#### Day 1

- introduction to the various fabric preparation processes, aims and objectives
- desizing, scouring and bleaching of cotton and synthetics
- the chemistry involved, equipment used and evaluation
- mercerisation and heat setting
- scouring, bleaching processes and evaluation

#### Day 2

- principles of coloration: printing and dyeing

- classification of dyes and physical and behavioral properties
- dye fixing
- half day visit

### Day 3

- synthetic fiber and fabric dyeing
- classification and properties of dyes used on synthetic substrates

### What is finishing?

- mechanical and chemical finishing
- finishes applied e.g. easy care, flame retardant and others
- colour fastness
- Faults of wet processing
- basis of colour and appearance
- the language of colour
- quantification of colour; CIE Colour System
- communicating colour
- colour difference

Fee: Rs.10,000/-



Textile Regulations  
and Standards



#### • ECO-LABELLING SCHEME

##### ENVIROMENT MANAGEMENT SYSTEM ISO-14000

Its is a management system which focuses on elimination of pollution from the environment created by the manufacturing industry and its processes.

It emphasize on continuous self assessment and reduction in pollution created by the organization in regards to emission, solid, effluent and noise.

##### ECO-LABELLING, EU-Flower, Eco-Tex other

Environment friendly product promotional and product labeling scheme requires textile producer to comply with set of textile performance standards and produce environment friendly textile products,

#### • Social Compliance & Code of Conduct

##### Social & Safety Compliances SA-8000, WRAP, AVE, BRC

The social compliance issue mainly stipulates the criteria for Health & Safety, Child labor, Discrimination, Gender issues, Minimum Wages and Overtime employment which are based on the ILO Conventions. A press release says that the social issues are the real challenge for entrepreneurs to prove their social responsibility in Pakistan.

#### • PAKSITAN FACTORY ACT & ENVIROMENTAL LAW (NEQS)

Under WTO regime every member country has to abide the ILO conventions and Law of the land or Pakistan Laws & Act.

## WTO Regime Compliance course

For textile exporters and entrepreneur. The purpose of this course is to provide, post quota and WTO compliances related to Social compliances, Fair-trade practices and eco-labeling scheme for textile industry, Also covers purpose and textile related WTO agreements.

### Course Content—1 Day

#### Textile Trade & WTO

- WTO Agreements & Quota
- World Market Share & Breakup

### Technical Regulations & Standards

- Types of Regulations& Standards
- National Level (UK/ Germany)
- Regional Level
- Western Europe
- North America
- International Level (ISO)

### Health & Safety Standards

- Home Textiles
- Apparel Products
- Goods Imported from Third World Countries

### Social Compliances

- SA-8000 / OHSAS 18000 / WRAP/AVE/BRC
- Law of the land (Pakistan)

### Technical Regulations for Environmental Issues:-

#### Eco Labeling Scheme

- Eco-Labeling
- ISO-14000 /EMAS
- Other EU / US eco Standards
- Pakistan NEQS /EPA standard & Factory Act.

### Eco-Audit:-

- The Relationship between Eco Management & Labeling scheme
- Waste Management & Recycling Packing & Packaging Waste

Fee: Rs.6000/-