

Traineeship Report in Xinlong

I have stayed in Xinlong as an International Exchange Student of IWTO for four months. During my stay in Xinlong, I got great help from Xinlong Group and employees on my traineeship. I would like to summarize my traineeship and my work in Xinlong as following:

1. General

I had four the most important outcomes of my traineeship in Xinlong Company.

Firstly, I have gotten more knowledge and experience on med-textiles and skincare nonwovens. Because I want to combine my future with medtextile or textile designed for skincare, Xinlong gave me a good opportunity to go into this industry. I think placement will help me in my future professional life. During my traineeship I learnt a lot about nonwovens technology. I also got experience about process of designing new product in the company. In September I attended in CINTE in Shanghai. It gave me opportunity to find out more about latest products presenting by exhibitors from many countries. Being in this company gave me knowledge and a bit more confidence, which I needed to start my professional life.

Secondly, I completed my M. A. Thesis in the help of Xinlong. The topic of thesis is *Management and Organization in Nonwovens Company*. My topic needs example of good company to write excellent paper, an ordinary company couldn't provide me evidence to prove many points. Xinlong produces various nonwovens, that is my interest and this is a very good chance to widen my interests. Staying in this company gave me chance to get a lot of information to my project. I observed the production and responsibility for each people in workshop. I found all information about Quality Control for my project.

Thirdly, I changed my views about wool during my stay in Xinlong Company. People from Technology Center taught me how to make use of wool to produce skincare products. This natural fiber isn't popular in nonwovens technology, but they show me many properties to be used in skincare products. They also explain me what functions it can offer.

Lastly, I made many friends in Xinlong and also know more things about China. It is my first time to China, I only knew something about China from internet, films and other medias before visiting here. I have stayed in this country for four months and I work with Chinese people, travel with Chinese people, enjoy the holiday and weekend with Chinese people, I know more about China.

2. About My Project

In manufacturing process statistical process control (SPC) is very important. The company uses statistical tools to observe the performance of the production line to predict significant deviations that may result in rejected products. In this company is NDC system quality control to produce products whose properties vary slightly from their designed values, even when the production line is running normally, and these variances can be analyzed statistically to control the process. If the product fall outside the tolerances of the manufacturer or customer, causing product to be rejected. By using statistical tools, the operator of the production line can discover that a significant change has been made to the production line, and correct the problem- or even stop production- before producing product outside specifications. In NDC system – statistical tools is Shewhart control chart, and the operator plotting the net weight in the Shewhart chart.

Production control includes 5 important points like: product standard, process, raw material, machines and package. I focused my attention on these points during my stay in the company.

First I was learning about machines. It is necessary to understand the profile of the company, to understand the technology and properties which machines can give you. I think important for machines and company equipment is maintaining them in good situation: checking and calibrating regularly, so I was learning about it. First I was collecting information about carding machine. It is the main machine in spunlace technology, and quality of finished product depends on this machine. I spent a lot of time to learn about Spunlace II production line. This line produces woodpulp spunlace nonwovens. The company produces high quality products from this line, so I wanted to know something more to be more convincing in my paper. Besides in Poland the companies don't produce this type of products so it was new for me.

Nonwovens and the properties they possess depend on the choice of fiber, technology which determines how the fibers are to be arranged and process, so after machines I concentrated on these three points.

The type of fiber can be used is important aspect which can develop the production of nonwovens. Fibers can be natural and synthetic, with diverse properties: hydrophilic and hydrophobic, rigid and flexible, crimped and smooth. In selecting fibers the company considers: cost, processability, how their properties change in web forming and consolidation and their effect on product function. I had chance to see how it looks quality control of raw material. This process is complicated and has many stages. Control starts when the company buys the fiber and finish after product inspection.



Process supervision and control is one of the main points in Quality Control. Each position is responsible of quality. I compared information from books and how it looks in practice. I looked how people check process parameters, analyses and record the process.

ISO 9000 is concerned with "quality management". This means what the company does to enhance customer satisfaction by meeting customer and applicable regulatory requirements and continually to improve its performance in this regard. ISO 14000 is primarily concerned with "environmental management". This means what the company does to minimize harmful effects on the environment caused by its activities, and continually to improve its environmental performance.

Standards make an enormous contribution to most aspects of our lives - although very often, that contribution is invisible and I wanted to prove it. Xinlong company has both important standards (ISO 9000 and ISO 14000) necessary to produce and to function very good. I was looking for information which proves that ISO standards are very useful and contribute to making the development, manufacturing and supply of products and services more efficient, safer and cleaner.

Checking products, materials, services, systems or people measure up to the specifications of a relevant standard is necessary. Today, many products require testing for conformance with specifications or compliance with safety, or other regulations before they can be put on many markets. Even simpler products may require supporting technical documentation that includes test data. With so much trade taking place across borders, conformity assessment has become an important component in company economy. ISO has developed many of the standards against which products are assessed for conformity, as well as the standardized test methods that allow the meaningful comparison of test results so necessary for international trade. Xinlong company has international customers, so they obey the standards very carefully. It gave me unique chance to observe how the company looks and work with this system.

In spite of writing about Quality Control, about management I was writing about organization of technology. I had to calculate time, shifts and system of work. I also had to write about demanding for raw material, efficiency of machines and units. In introduction of my paper I wrote about assortment of products and lists of machines. It will be more comprehensible and transparent for people who will read my arguments apply to Quality Control.

I want to present in my paper in normal production conditions – it means that systems, machinery and devices work well and safely.

3. Miscellaneous

Besides completing my project, I also helped Xinlong to develop and design the wool skincare nonwovens, I hope my work is helpful for the further work of skincare project. I went back to Poland to continue the MA degree, I think I will lastly remember life that I spent in Xinlong, my career also will be associated with nonwovens industry.

Lastly, I would like to express my thickness again to IWTO, AWI, Xinlong and all people that contribute to me during my traineeship.

Best wishes,

Renata Jagiello

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