

Report On Summer Program for Training of Teachers July 12-17, 2004 For Inculcation of Technical and Enterprising Awareness among Students of 6th to 10th Class through Workbook

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Organized By:

Task Force –

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Background

In a developing country like Pakistan, it is very important to create a sense about the technology, especially in the new generation who can change the destiny of the country in future.

At the moment, what is happening in Pakistan is that, people are using technology in the form of products that are imported from outside the Pakistan because of the fact that those products are not made in Pakistan. No one thinks of making these products locally and no one thinks of the technology that is involved in the making of these products. That is a great danger to our society in the near future, as we have to face the threat of WTO. The things that are made here are either very expensive so that they cannot compete against the products which are exported from other countries or these are of inferior quality. All that is because of the unawareness about technology. People use to import the machinery from abroad but no one thinks of making the same machine here in Pakistan.

There are few people who are working in terms of production and living their livelihood, but their ratio is very small. The ratio of such people is estimated to be as 2-3%, which is not acceptable for any developing country.

The question is that why the people are not working or at least thinking to start their own business and especially to make such things that are not being made in Pakistan.

The answer is, the society. The society includes the parents, teachers and, never the less, the environment in which they are living. A little child when goes to school on first day, he is taught that you have to get good job or you have to become an officer. This concept is not in any way positive for a little child. This concept develops in the blank minds of the little children as they grow

up. Every one wants to become an engineer, doctor or a big officer in a multinational company. And they began to hate those people, which work with their own hands. As a result no one likes to work with their own hands or no one wants to start their own business. They take, getting a job, as a more respected profession. Now what happens that only a few of them are able to get jobs or to become an engineer or doctor? And rest of them remains jobless and mostly use to wander here and there in search of job instead of starting their own business and live their livelihood. As a result the unemployment rate increases to great extent. And in the end the government is blamed for that. But infect every one is responsible for his own destiny; it is the mind that does not allow them to work.

Purpose of PFAET

The purpose of **PFAET** is to develop the thinking of the people especially the little children so that they should be able to stand on their own feet when they pass out of the school while doing their further studies. They should know modern technologies. They should know how to design different machines and to operate them. They should be able to make and understand drawings (working drawings) of the different parts of the machines. They should be knowing art and have a sense of aesthetics. And in the end they should be having the concept of mutual participation & marketing.

This is the only way to alleviate unemployment and hence poverty. When every one is productive, then our country will be able to face the threats of the modern world.

Technical Workbook

Keeping in view of all of the above aspects, it is very important to develop the thinking of the people (especially of children) and change their minds. For this purpose the Foundation (**PFAET**) thought that the school is the best place to start our project and to develop the minds of the people at grass-root level.

We prepared a **Workbook** which could give information about technology or which could give information about the designing and making of things and also marketing of these things.

The chapters, which are included in this Workbook, are as follows:

1. Safety
 2. Examination Project Guide
 3. Project Work – Examples
 4. Design and Problem Solving
 5. Design and Problem Solving (*in Detail*)
 6. Appearance (*Aesthetics*)
 7. Graphical Communication
 8. Materials
 9. Shaping And Forming Materials
 10. Technology
 11. Structures
 12. Mechanics
 13. Energy
 14. Electronics
 15. Computers in CDT
 16. Technology in Society
 17. Project Ideas
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In addition to the above chapters it includes the chapters on

- Art and Craft
- Handicrafts
- Marketing of the Products

The Workbook is to be taught to the children starting class 6 to class 10. For this purpose the Workbook was divided in to five parts keeping in view the class to which it will be taught.

Sidra Public Model School, Dhalley Pind, Lahore. Workshop:

To develop the minds of the people at grass-root level we selected a school in a backward area of Lahore city. The school is located in a village called “***Dhalley Pind***” and the school’s name is ***Sidra Public Model School, Dhalley Pind Lahore.***

The biggest problem in that respect was that, the teachers who were teaching in *Dhalley Pind School* were unaware of these things and were reading these topics for the first time. Now the first task was to teach those teachers first so that they would be able to teach their students.

Dhalley Pind is a backward area of Lahore city where the people don’t even know the word, “Technology”. The same is the case of the teachers of Dhalley Pind School. One can easily guess the condition of these teachers by considering the following figures:

Sr. #	Name of the Teacher	Qualification
1	Miss Asiya Bashir	Matriculation
2	Miss Shumaila Niamat	Matriculation
3	Miss Saima Shafiq	F.A.
4	Miss Naureen Arshad	B.A.
5	Miss Sana Jamil	Matriculation
6	Miss Azra Firdous	F.A.
7	Miss Gulnaz Husain	Matriculation
8	Miss Sajida Gillani	Matriculation
9	Miss Nusrat Javed	F.Sc.
10	Miss Musarrat Shaheen	F.A.
11	Miss Amina Fayyaz	Matriculation
12	Miss Aysha Maqbool	Matriculation

The organizers (participants) who delivered the lectures in the Workshop are:

- **Dr. Engg. Javed Younis Uppal** *(Founder of PFAET)*
 - **Capt. Shoaib Hashmi** *(Member of PFAET)*
 - **Mr. Omer Sheikh** *(Student of Architectural
Engineering, UET Lahore)*
 - **Miss Sumra Yousuf** *(Student of Architectural
Engineering, UET Lahore)*
 - **Mr. Samee Ullah** *(Student of Architectural
Engineering, UET Lahore)*
 - **Mr. Khurram Shahzad Amjad** *(Student of Architectural
Engineering, UET Lahore)*
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Five Days Workshop

To educate the teachers the *Five Days Workshop* was planned like this.



Day	Participant	Topic
July 12,2004	Dr. Javed Younis Uppal	Motivation of teachers
July 13, 2004	Miss Sumra Yousuf	Introduction of Workbook
July 14, 2004	Mr. Khurram Shahzad Amjad	Design, Drawing & Art
July 15, 2004	Mr. Samee Ullah + Mr. Omer Sheikh	Manufacturing Processes
July 16, 2004	Capt. Shoaib Hashmi	Marketing (<i>How to sell Product</i>)
July 17, 2004	Dr. Javed Younis Uppal	Distribution of Certificates

First Day

The Workshop was not a simple one, it was very difficult as it was planned in summer vacations and the teachers were not willing to come to school. And also they don't had any interest in the above mentioned topics (designing, art, drawing, manufacturing, marketing etc.)

Keeping in view the above aspects, it was essential to motivate the teachers and to develop their interest in this Workshop. Because it was very important for the teachers to learn the above mentioned topics so that they could teach the Workbook to their students. And it was not possible unless they take interest in the Workshop.

Dr. Javed Younis Uppal delivered the lecture at the first day. He explained the purpose of **PFAET** and this Workshop. After that when comments of teachers were asked they showed no interest in this Workshop. They did not want to be technologists or to learn these things. So the problem became worse.

How to develop the interest of these teachers? This was the main question, which was present in the minds of all of us.

Dr. Javed Younis Uppal started interviewing the teachers, that what they want to do in their life or what they can do. Only two of the teachers responded to that, which really had some aim in their life:

- Miss Nusrat Javed; wanted to make a school and run it.
- Miss Naureen Arshad; was able to make decoration pieces with wax,

greeting cards and to do cloth printing. She wanted to develop this as profession & wanted marketing of her products.

What about the rest of the teachers? They did not really had interest in this Workshop. Dr. Uppal gave separate projects to all of them to work on. This was done to develop their interest. And they were told that how they can earn money in all of these projects. The detail of the projects is as follows:

Name	Project
Miss Gulnaz Husain	Security Systems
Miss Sajida Gillani	Publishing of a local news paper
Miss Amina Fayyaz	Recycling and export of human hairs
Miss Aysha Maqbool	Manufacturing of wrought iron products
Miss Saima Shafiq	Work on establishing a computer college

Day 2

On the 2nd day *Miss Sumra Yousuf* delivered the lecture. Her topic was to introduce the **Technical Workbook**.

We were expecting that the teachers would show great interest after the lecture delivered by, Dr. Uppal. But the situation was devastating and only 7 teachers were present at that day.

Miss Sumra Yousuf introduced the all chapters of the Workbook. She also emphasized to convey our purpose to all of them. But the teachers seemed to show no interest. Their point of view was that, they don't want to learn these things. Also they did not have worked on their projects. Some of them were saying that they don't get permission from their parents to do this kind of work.

Some said they don't have enough money to work on their projects. Only **Miss Naureen Arshad** showed some interest towards her project. She used to make beautifully decorated candles out of wax & she was used to do cloth printing and embroidery. She was willing to develop this habit as a profession.

Dr. Uppal again tried to boost them up by explaining that what they can do and what they can earn instead of thinking negative that they can't do any thing. Did it have any effect we had to wait and see till next day?

Day 3

Mr. Khurram Shahzad Amjad delivered the lecture on day 3. The topic was very interesting that is, "**Art, Design and Drawing**". It is common behavior in Pakistan that the ladies are mostly interested in art. So we expected that they would show interest and come in more numbers. But on 'Day 3' only five of the teachers were present.

So it looked that all of our efforts are in vain. It looked that may be we were not able to convey our message or the teachers were so hopeless that they were not listening to us.

Mr. Khurram Shahzad explained that what are the procedures involved to make a product starting from its designing to its manufacturing. He explained all the factors involved in the designing of the product e.g. appearance, stability, cost, ergonomics, safety, material, effect of the product on the environment etc. He also explained the working drawings by giving examples and explained the difference between ordinary drawing and working drawing. In the topic of art he explained what art is by explaining lines, shapes, surface textures, patterns and colors. He also emphasized the aesthetics or art aspect of the product because after the manufacturing of a product, it will be sold easily, if it is beautiful.

The teachers at that day seemed to start taking interest in this Workshop. And they started opening up and they were talking more instead of just keeping quite and watch. And also we came to know their problems. Most of these

teachers belonged to poor families. They were earning Rs. 650/ month (approximately \$13/month) and they did not had any other source of income. So we started to boost them up by explaining that they can earn more money instead of sitting at their homes. They had not done any thing on their projects but now they were willing to work on these.

Day 4

On “Day 4” *Mr. Omer Sheikh & Mr. Samee Ullah* delivered the lecture. Their topic was “**Process of Making**”. Mr. Omer Sheikh First explained the instrument that may be involved in the manufacturing process then he explained different processes, which may be used in the manufacturing of the products, like: nailing, bolting, riveting, drilling, molding, casting, forging. And he also explained that, different processes would be used for different jobs. He also explained different types of joints used in the manufacturing of a product, which are different for different products.

Then Mr. Samee Ullah explained the process of mass production that, how the product is manufactured on a larger scale and what are the different factors involved. He then explained electronics and the role of electronics in the manufacturing process.

This was the day when we got our award because the teachers looked more interested, more conscious and more enthusiastic in the lecture. They were asking question without any hesitation. Also the teacher’s attendance was increased to seven as compared to the previous day when it was, five.

Day 5

It was the last day of our Workshop. *Capt. Shoaib Hashmi* delivered the lecture. His topic was “**Marketing**” of a new product. He told that it is easy to

market the product by mutual participation instead of working individually. He gave them the “**Formula of Mutual Participation**”. He explained that working in-group is more beneficial and profitable and in this way mass production can be started and every one working in the group gets its share of the output.

Now the teachers were willing to make a group and to start a project e.g. one of them knows to make beautiful decoration pieces out of wax, now the group of five persons was supposed to be made, two of them will provide the labor, the third one was to work on designs and color combination, the fourth group mate would be keeping an eye on the market and researching that what is the trend of the market and where is the need of the product, and the fifth member would be working as manager.

They all looked very excited. And now they understood that what was our purpose and how they will explain these things to their students.

Mr. Muhammad Sadiq was present as a guest on day 5. He is renowned calligrapher, and is running a school “**KOSHISH SCHOOL**” in a village “**NAWAN PIND**” near Gujranwala. There are 150 students in this school and students get the education free of cost. Mr. Muhammad Sadiq is running this school very efficiently. **PFAET** is planning to arrange the same Workshop in “**NAWAN PIND**”.

Mr. Muhammad Sadiq boosted the moral of the teachers and he also explained the need of technical education at grass root level. He explained that why it is essential for the children to learn the modern technologies and we can only compete with the world if we have the concepts of the modern technologies. So it is necessary for the teachers to learn these things so that they could teach their students efficiently.

Day 6

On “Day 6” the certificates were distributed among the teachers who were present during this Workshop. Now the teachers were themselves coming to us and asking that

what they can do? What is role of technology in their projects? They also discussed their problems with us.

Center of Discussion

In this Workshop of five days center of all of our discussion was the use of **Technology** either in the designing of the product or its manufacturing (mass Production). By the use of technology a thing can be made easily and quickly and it is also more beneficial.

Findings

The Workshop was successful. The purpose of the Workshop was to change of the minds of the teachers so that they could be able to teach their students with interest. It was not easy to change the minds of the teachers. We found out that these teachers cannot be interested in technology unless it benefits them. So we had to personally involve these teachers to achieve our purpose of the workshop.

Mutual line of action in the future

By the interaction of **PFAET**'s members and the teachers present there, the mutual line of action for the future was decided.

As a result **Miss Noureen and Miss Shumaila Niamat** were attached with **Miss Fouzia**. Miss Fouzia was also a student of *Sidra Public School, Dhalley Pind*. She is now running a Boutique in Garden Town on a smaller scale. But she wants to develop this on a larger scale. For this purpose she required a teamwork and labor. She also wanted to run a training school of *Art and Crafts*. Miss Shumaila Niamat will provide the labor and as Miss Naureen is a very good designer and knows to do cloth printing, she will be doing design work for the boutique. Miss Fouzia will do the marketing of their products as she is in the market for quiet a long time and knows the trend of the market and also knows where the need of their product is. And at the end they all will get the equal share out of the profit. Hence there will be "*win-win situation*" for every one.

All three of them will also establish the training school with a greater role of Miss Noureen.

Miss Amina Fayyaz is planning to export human hair. She contacted some of the foreign companies through **PFAET** to sell or to export human hair.

Miss Nusrat Javed is planning to establish a school (**Electronics School**) and **Miss Saima Shafiq** wanted to run a computer college. But both of them had the problem of money and land. They were attached with *Sidra Public School, Dhalley Pind*. Sidra Public School provided the empty space in the school vicinity to develop the computer college and the Electronics School. Sidra Public School's Administration also gave them the option of starting the evening classes in the school as the classes are free in the evening times. And also the management provided them the funds. And all that was done on the mutual participation basis.

Miss Sajida Gillani's project was to publish a **local news paper**. For that purpose she did not had money, we suggested her to involve some of her colleagues in this project on mutual participation basis, which will solve the problem of money to some extent. In the future, after the publication of first number, this problem will be solved by the advertisements. As the News paper is local, which will highlight the problems of the local people; it will soon attain popularity in future and also will help to solve the problems of the local people. This project will also be developed on mutual participation basis and will involve different people such as writers, marketer, publisher etc. and every one will get his/her share out of the profit.

In all of these projects **PFAET** is determined to provide any kind of help and consultancy in any field.
