

# **Pakistan Development Forum 2005**

## **“Sustaining Growth & Improving Quality of Life”**

**PRESENTATION ON**

# **Main Streaming of Technical & Vocational Education**

*by*

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26<sup>th</sup> April 2005

# OBJECTIVE

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- To improve quality of life by shifting emphasis from general education to *employable* Technical Education & Vocational Training.
- To supply skilled manpower for sustainable economic growth.
- To provide opportunities in meaningful technical / vocational training with vertical & horizontal mobility for the dropouts from general education.

# ANALYSIS OF SITUATION

## 2004

- **43% population of age group 05 – 14 years is uneducated / never attended schools\*.**

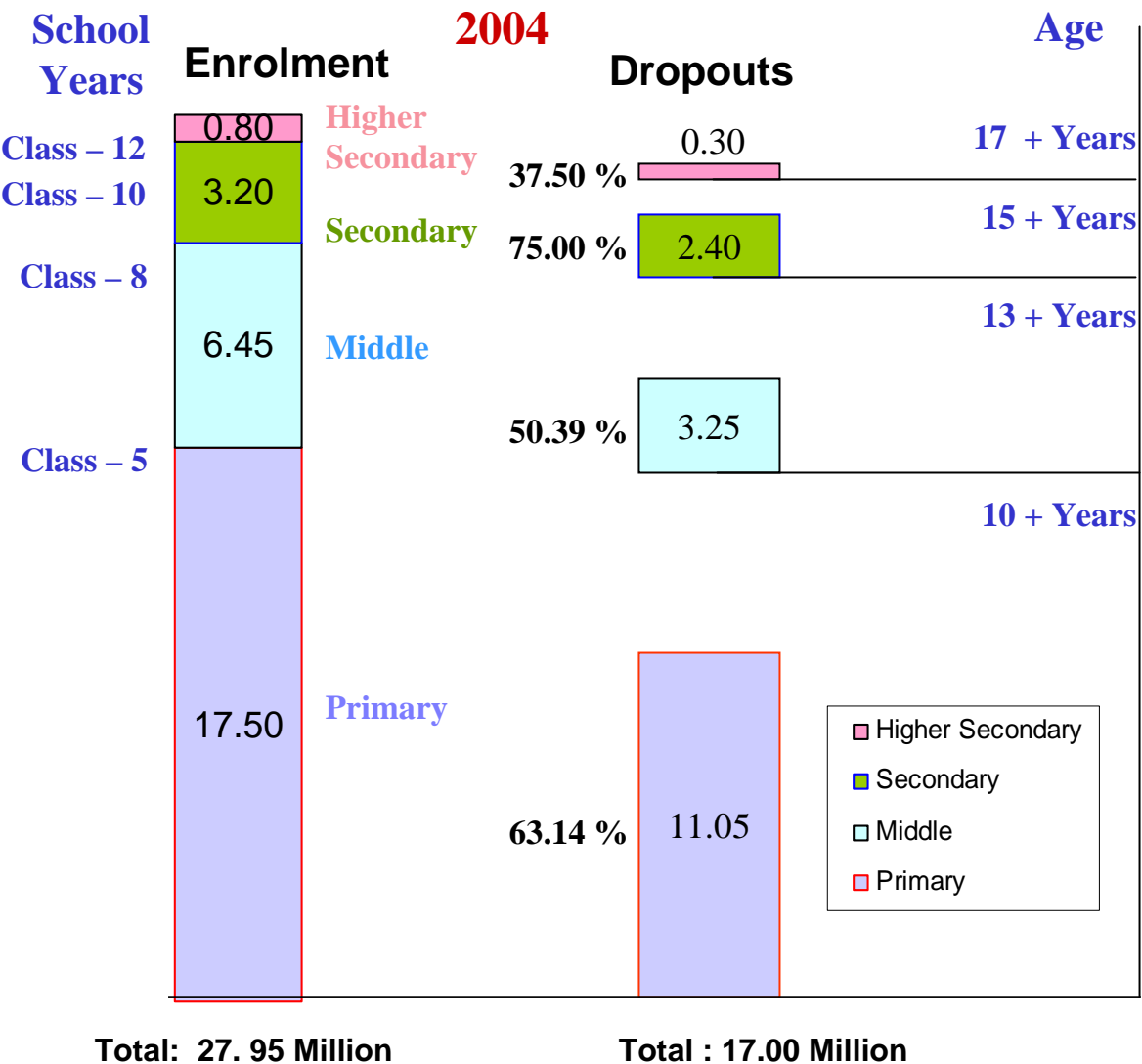
*(In Millions)*

Age Group (Years)	Total	Never Attended School	
05 – 09	19.43	04.50	23.16 %
10 – 14	17.62	11.44	64.93 %
Total 05 – 14	37.05	15.94	43.02 %

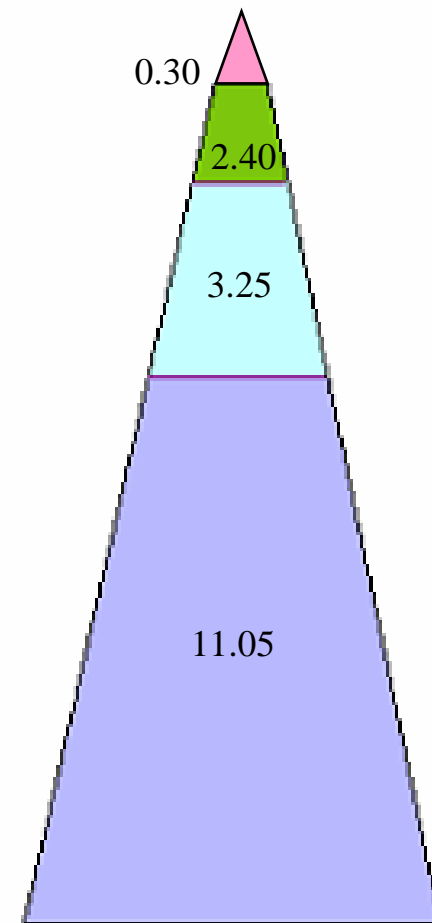
- **Uneducated children are source of child labour and beggary.**

\* Source: Planning Commission

# ENROLMENT & DROPOUTS UP TO INTERMEDIATE LEVEL (GENERAL EDUCATION)



**TEVT Potential**  
17 Million places



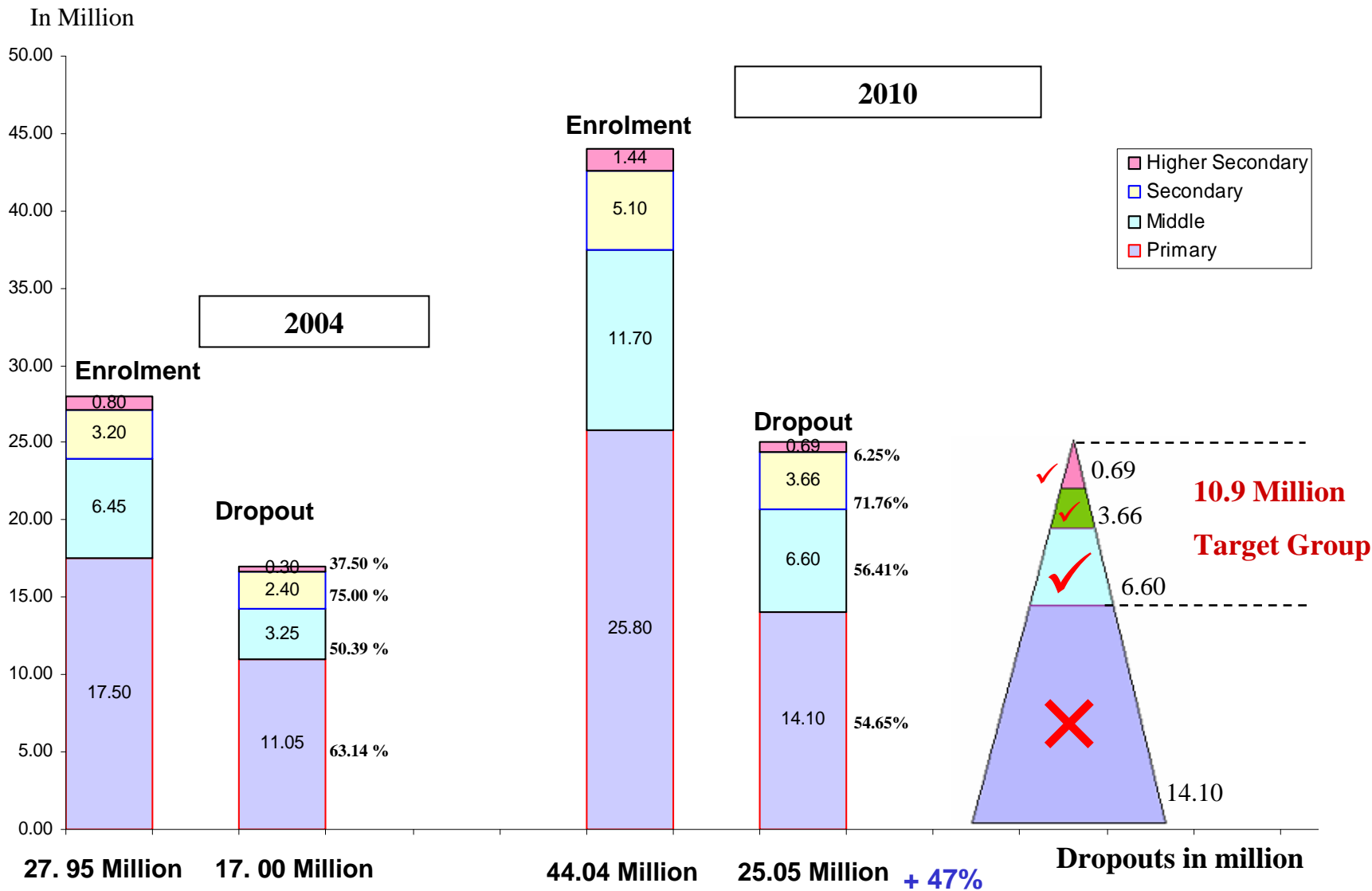
## POTENTIAL VS CAPACITY

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- **No opportunities of vocational education or training for 16.70 million school dropouts of age below 15 years.**
- **TEVT available capacity is about 0.15 million (0.09 million in Government Institutions) against 0.30 million children of age 15 years and above.**
- **TEVT capacity is only 0.88% of total general education dropouts (17 Million).**

Continued ..... Analysis of situation

**PROJECTED ENROLMENT & DROPOUTS UP TO INTERMEDIATE LEVEL**



**%age Dropouts 60.82%**

**56.88% - 4%**

Source: Planning Commission Report of Working Group on Basic and College Education for MTFD 2005-10.

# TARGET FOR TEVT

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**Minimum increase in annual training capacity**

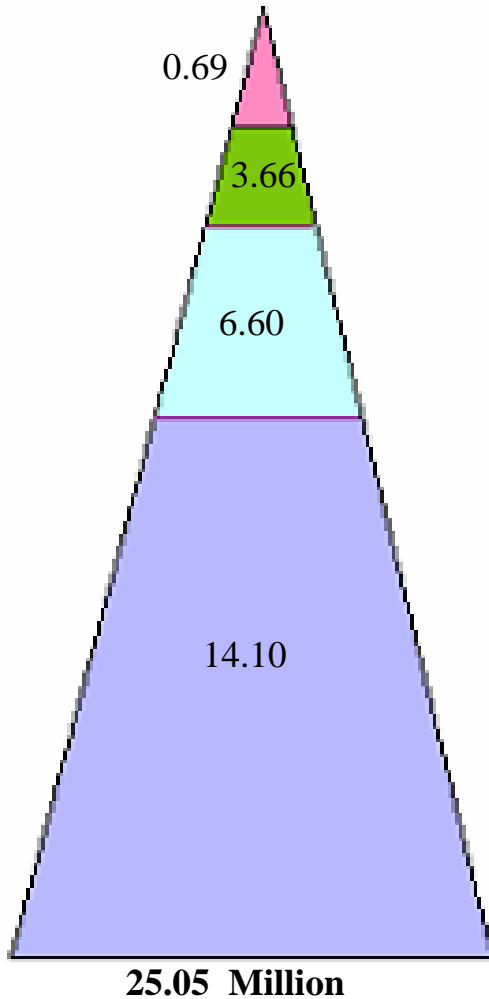
**1 Million**

- **Annual new entrants in Labour Force = 0.85 Million \***
- **Backlog from previous years = 0.15 Million**

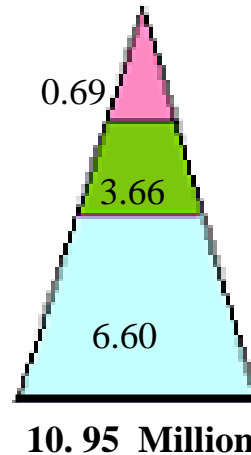
**Due to financial and physical constraints, the completion of TEVT programme might extend up to 2015.**

# PROPOSED EXPANSION OF TEVT CAPACITY BY 2015

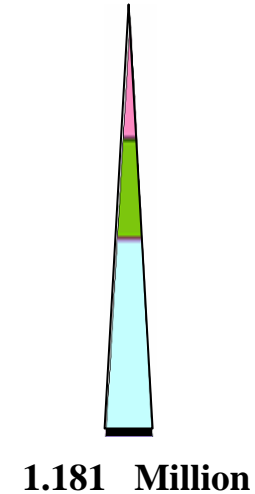
**Drop Outs from General Education Stream**



**Target Group for Technical Education Stream**



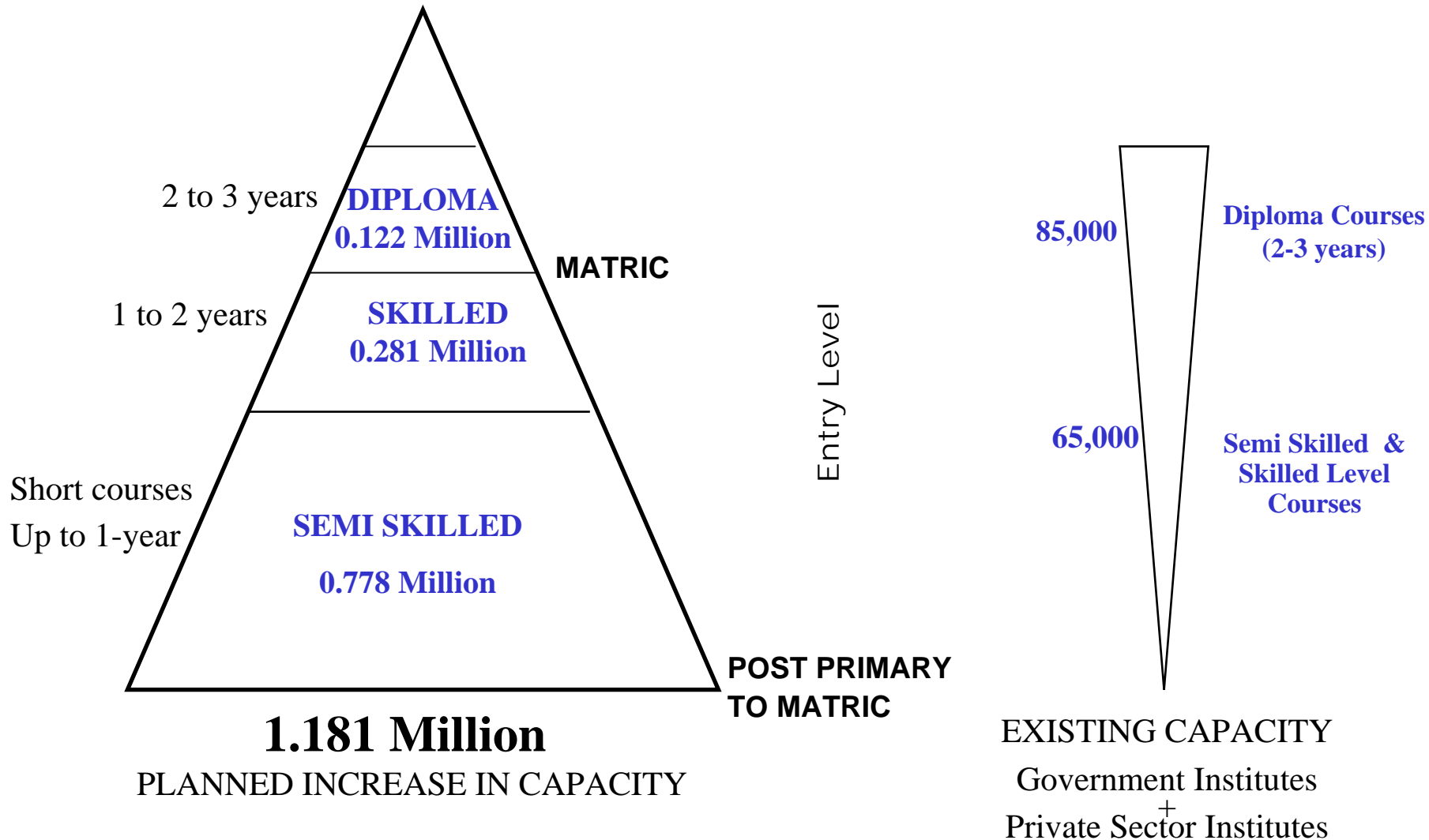
**Proposed Capacity Expansion**



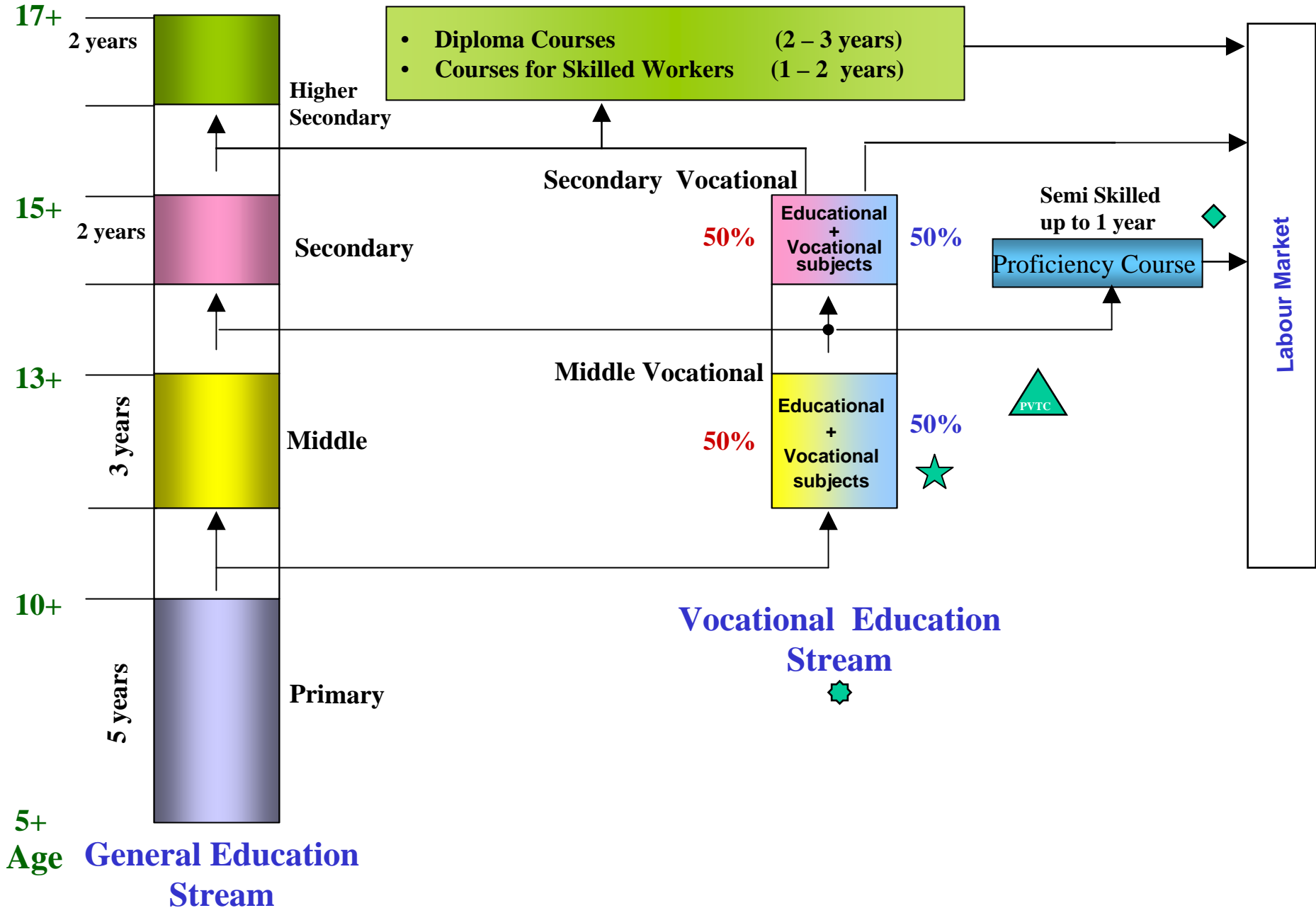
	<u>2004-2005</u>	<u>2014-2015</u>
TEVT Capacity	: 0.15 million	1.331 million
Increase in TEVT Capacity	:	8.87 times
TEVT capacity with reference to general education dropouts	: 0.88%	5.31%

# INCREASE IN CAPACITY

(Breakup of training places in the institutions during the plan period)



# VOCATIONAL EDUCATION STREAM



# EXPANSION OF TEVT SYSTEM BY 2015

## TO TRAIN ONE MILLION CHILDREN

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### A. INSTITUTIONAL TRAINING

- **Number of institutions to be established** **2890** 
- **Annual enrolment of new institutions** **1.081 Million**

### B. OTHERS

- **Apprentices**
  - **In industry** **0.025 Million**
  - **Ustad – Shagird System** **0.075 Million**
- **Total new enrolment** **1.181 Million**

- **Need based training and curricula.**
- **Establishment of accreditation, certification and examination system to ensure standard of training.**
- **Training & motivation of teachers and management staff.**
- **Provision of adequate equipment and teaching learning resources as per curricula.**

# RESOURCES REQUIREMENT

## FOR ESTABLISHMENT OF NEW INSTITUTIONS BY 2015

### Financial Resource

- **Capital cost** **Rs. 78.989 Billion** ( **U\$ 1.316 Billion** )
- **Annual recurring budget** **Rs. 19.775 Billion** ( **U\$ 0.330 Billion** )
  - Institutional Training Rs. 19.325 Billion ( U\$ 0.322 Billion )
  - Ustad – Shagird System Rs. 0.450 Billion ( U\$ 0.008 Billion )
  - (@ Rs. 500 / apprentice / month)
- **Curriculum** **Rs. 0.100 Billion** ( **U\$ 0.002 Billion** )  
(100 courses @ Rs. One million)
- **Teachers Training** **Rs. 2.922 Billion** ( **U\$ 0.049 Billion** )
  - TA/DA Rs. 1.252 Billion (U\$ 0.021 Billion)
  - Training Cost Rs. 1.670 Billion (U\$ 0.028 Billion)

## Human Resource

• Teaching Staff	75,116
• Non Teaching Staff	38,750
➤ Direct employment generation	113,866



The logo of the Punjab Vocational Training Council is a circular emblem. It features a purple outer ring with the text "SUCCESS THROUGH SKILL" in white. Inside the ring, the words "PUNJAB VOCATIONAL TRAINING COUNCIL" are written in purple. The center of the logo contains a stylized green and blue wave pattern, with the Urdu text "حکومت پنجاب" (Government of Punjab) written below it. The entire logo is set against a white background.

**THANK YOU**

## Contd:.. Vocational Training Stream



- Channelize post primary school drop-outs to vocational education stream.
- Reduce child labour by increasing provisions of skill development facilities.
- Main focus on skill development along with imparting functional education, leading to
  - Employment
  - Horizontal and vertical mobility.
- Equal weightage to vocational and educational subjects.
- Emphasis of vocational subject on practical training and educational subjects on functional knowledge relating to daily routine..



## **Education Subjects** 50% of course weightage

**(Course contents to focus on functional aspects)**

- **Urdu**
- **Functional English**
- **Functional Mathematic**
- **Applied Science**
- **General Studies**

## **Vocational Subjects Group** 50% of course weightage

**(Introduction to and orientation with vocational subjects through practicals)**

- |  |                            |
|--|----------------------------|
| ➤ <b>Agriculture and Live Stock</b>            | ➤ <b>Hospitality</b>       |
| ➤ <b>Metal Work</b>                            | ➤ <b>Domestic Services</b> |
| ➤ <b>Wood Work</b>                             | ➤ <b>Home Economics</b>    |
| ➤ <b>Leather Work</b>                          | ➤ <b>Tailoring</b>         |
| ➤ <b>Repair &amp; Maintenance of Transport</b> | ➤ <b>Building Painting</b> |
| ➤ <b>Electrical &amp; Electronics</b>          | ➤ <b>Ceramics</b>          |
| ➤ <b>Civil Construction</b>                    | ➤ <b>Others</b>            |

# PVTC EXPERIENCE



11-C

## February 2005 Status

<b>1</b>	<b>Total No. of VTIs</b>	<b>77</b>
<b>2</b>	<b>Total trades</b>	<b>32</b>
<b>3</b>	<b>Annual pass-outs capacity</b>	<b>17000</b>
<b>4</b>	<b>Total teaching staff</b>	<b>955</b>
<b>5</b>	<b>Total non teaching staff</b>	<b>564</b>
<b>6</b>	<b>VTIs under establishment</b>	<b>14</b>
<b>7</b>	<b>Dropout Rate</b>	<b>12%</b>

## Experience 1999 to 2004

<b>1</b>	<b>Total pass-outs</b>	<b>20320</b>
<b>2</b>	<b>Total traceable pass-outs</b>	<b>18276</b>
<b>3</b>	<b>Total trainees employed / self employed</b>	<b>13161</b>
<b>4</b>	<b>Employability of traceable pass-outs</b>	<b>72 %</b>

# PROFICIENCY COURSES BEING OFFERED BY PVTc

11-D

Sr. No.	Trade / Course	Entry Qualification (Schooling Level)	Duration including OJT
<b>Computer Courses</b>			(in Months)
1	Computer Operator / Office Assistant	Secondary	8
2	Computer Applications & Data Base Management	Secondary	14
3	Computer Applications for Business (Accounting & Marketing)	Higher Secondary	14
4	Auto CAD	Secondary	8
<b>Electronics Courses</b>			
5	Radio & TV Mechanic	Secondary	14
6	Computer Hardware Repair & Maintenance	Secondary	14
<b>Electrical Courses</b>			
7	Repair & Maintenance of Electrical Home Appliances	Middle	14
8	Industrial Electrician	Secondary	14
9	Ref & Air Conditioning	Secondary	14
<b>Auto &amp; Diesel Courses</b>			
10	Auto Mechanic	Middle	14
11	Motor Cycle Mechanic	Middle	8

Continued..... Next slide

Sr. No.	Trade / Course	Entry Qualification	Duration including OJT (In Months)
12	Auto Electrician	Middle	8
13	Single Cylinder Diesel Engine Mechanic	Middle	8
<b>Mechanical Courses</b>			
14	Welder / Fabricator	Primary	8
15	Plumber	Primary	8
16	Fitter (Bench Work)	Primary	8
17	Machinist	Secondary	14
<b>Health Care Courses</b>			
18	Clinical Assistant	Secondary	14
<b>Textile Courses</b>			
19	Computer Textile Designing	Secondary	14
20	Textile Fitter	Middle	14
21	Weaving (Jute)	Middle	8
22	Computer Pattern Design	Secondary	8

Sr. No.	Trade / Course	Entry Qualification	Duration including OJT (In Months)
<b>Tailoring Courses</b>			
23	Domestic Tailoring	Primary	8
24	Leather Garments Stitching	Primary	8
25	Dress Making	Primary	14
26	Embroidery	Literate	14
<b>Agriculture / Live Stock Courses</b>			
27	Artificial Insemination	Secondary	1
<b>Misc. Courses</b>			
28	Screen Printing	Middle	8
29	Beautician	Middle	8
30	Import Export Documentation	Higher Secondary	8
31	Literacy Course	Illiterate	7
32	Mobile Phone Repairing	Secondary	8



	Sr. No	Type of Institutes	Number of new Institutes	Capacity
Diploma	1	<b>Industry, Agriculture &amp; Service Sectors Institutes</b> ★ <i>(At least one institute in each District)</i>	<b>113</b>	<b>81360</b>
	2	<b>Training Institutes for Women</b> <i>(At least one institute for females in each District)</i>	<b>113</b>	<b>40680</b>
Skilled	3	<b>Technical &amp; Vocational Training Institute</b> <i>(At least one institute in each Tehsil)</i>	<b>377</b>	<b>180960</b>
	4	<b>Apprentices in Industry</b> ★		<b>25,000</b>
	5	<b>Apprentices of Ustad Shagird System</b> ★		<b>75,000</b>
Semi-Skilled	6	<b>Vocational Training Institutes (Proficiency Certificate Level)</b> <i>(At least one institute in each Tehsil)</i>	<b>377</b>	<b>113100</b>
	7	<b>VTIs for Mustahqueen-e-Zakat</b> <i>(At least one institute in each Provincial Constituency)</i>	<b>729</b>	<b>145800</b>
	8	<b>VTIs for Workers Children</b> <i>(At least one institute in each industrial zone)</i>	<b>50</b>	<b>10000</b>
	9	<b>Vocational Education Institute</b> <i>(At least three institutes in each Tehsil)</i>	<b>1131</b>	<b>508950</b>
		<b>Total</b>	<b>2890</b>	<b>1,180,850</b>



## Few of Service Sector Courses

- **Import Export Documentation**
- **Computerized Accounting**
- **Health Technician**
- **Live Stock Assistant**
- **Agriculture Assistant**
- **Transport Workers (Driver, Conductors, Booking Clerks etc)**
- **Tour Operators**
- **Commercial Cooking**
- **Hospitality Services**
- **Insurance Reps**
- **Medical Reps**
- **Sales Persons**
- **Photographer**
- **Beautician**
- **Hair Dresser**

# APPRENTICESHIP TRAINING SCHEME

12-A2



- The Apprenticeship Ordinance, 1962 envisages promotion, development and regulation of systematic Apprenticeship Training in industrial establishments, having more than 50 employees.
- To assist the small and medium size establishments, the Government has established Apprentices Training Centres and nominal fee is charged from the employer.
- The duration of the training program varies from 6 to 36 months, depending upon the nature of trade.
- The apprentices are paid by their employers a stipend @ 50%, 60% & 70% of the wages of a skilled worker in the trade during 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> year of training respectively.
- The training program consist of 80% practical and 20% theoretical training.
- Apprentices are preferably Matric and of age 15 to 20 years.

# USTAD – SHAGIRD SYSTEM



**Developing “Ustad / Shagird (Apprenticeship) System” by encouraging and helping Ustads to be involved in formal vocational training.**

- **Registration of skilled Ustads.**
- **Provision of honorarium to Ustads.**
- **Guidelines for skill standards.**
- **Competency certification of Apprentices.**