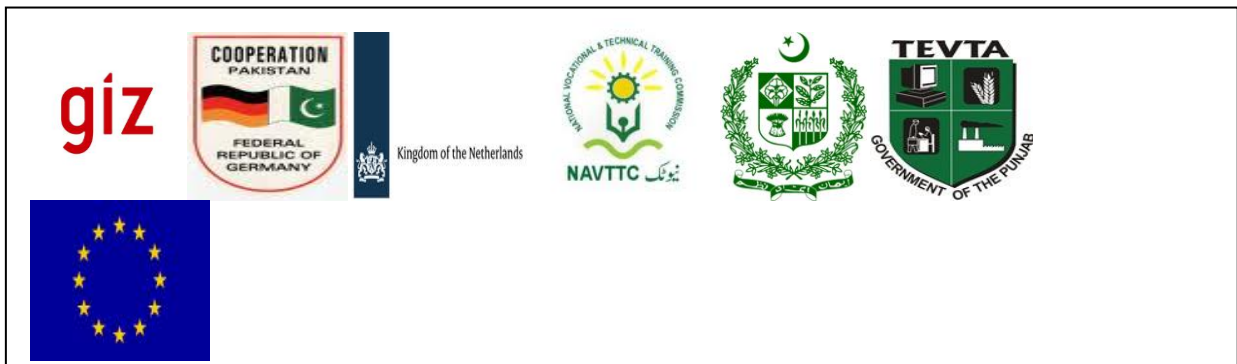


# CURRICULUM FOR POLISHING AND PAINTING

6-MONTHS  
(Certificate course)

National Vocational & Technical Training Commission, Islamabad (February, 2012)



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## **TRAINING AIMS & OBJECTIVES**

The aim of this course is to prepare students as effective Polish and Paint experts.

The major objectives of this course are to:

- Capable of using hardware, carving on various types of wood, cost calculation, preparation and application of colours and polishes
- Design various wooden objects
- Enable the trainees to meet the job market demands

## **CURRICULUM SALIENT POINTS**

Entry Level	Middle (age 15-22 yrs)
Duration of Course	6-Months 1-Semester
Training Hours	800 Hrs. 40 Hours per week 7 hours per day( Friday 5 hours)
Training Methodology	Practical 80% Theory 20%
Instructional Media	Urdu / English

## **SKILL COMPETENCY DETAILS**

On successful completion of this course, the trainee should be able to: -

1. Carry out all safety rules & precautions personal and equipment
2. Identify local timber in common use and be able to distinguish good and defective timber
3. Prepare smooth finished surface by hand and with equipment.
4. Use hand and portable power wood working tools etc.
5. Operate & use of spray machines
6. Repair or store various types of wooden structure
7. Match the colour with wood to be used for the jobs
8. Organize and apply the various stain and Colours
9. Utilize various techniques correctly on wood regarding polish and paint.
10. Calculate approximate cost of any object prepared, including materials involved.
11. Incorporate all steps related to finishing & polishing of wood
12. Mix the material as per requirement

## KNOWLEDGE PROFICIENCY DETAILS

On successful completion of this course, the trainee should be able to:

1. Define the safety precautions applicable to power machines and equipments.
2. Express the good care and maintenance of woodworking tools & equipment.
3. Describe the preservation & storage of polish material.
4. Explain the procedure for preparing the surface for polishes & paint.
5. State the operation and uses of various types of polishing machines and tools.
6. Understand the polishes varnishes and paints to be used for wood finishing.
7. Elaborate to match the colour and grain of the timber to obtain a good finish.
8. Understand basic classification, preparation of colours
9. Describe the techniques of polish and paints
10. Have knowledge of applied cost calculation for the prepare
11. Articulate the essential and advanced concepts and techniques of polish and paints
12. Describe the process and steps involved in Finishing and Polishing.

## CURRICULUM DELIVERY STRUCTURE

### 1<sup>ST</sup> SEMESTER

	Curriculum Delivery	Co- curricular activities / Vacations	Test	Total
Week	1-20	21-25	26	26
	20	5	1	

### **SCHEME OF STUDIES** **Polishing and Painting (6-Months Course)**

SR. No.	SUBJECTS	THEORY Hrs.	PRACTICAL Hrs.	TOTAL Hrs.
1.	Hand Tools Theory	20	40	60
2.	Timber Theory	20	-	20
3.	General Safety Measure	20	60	80
4.	Introduction to Polish and Paints	20	40	60
5.	Finishing and Polishing	50	450	500
6	Cost calculation	10	-	100
7	Operation of Machines	20	30	120
8	Work Ethics	-	20	20
<b>Total</b>		<b>160</b>	<b>640</b>	<b>800</b>

**DETAIL OF COURSE CONTENTS**  
**Polishing and Painting (6-Months Course)**

Sr. No.	Detail of Topics	Theory Hrs.	Practical Hrs.
1	Basic Workshop Safety Rules	3	10
2.	<b>Wood Material</b> 2.1. The vegetative structure of the tree 2.2. Characteristics and structure of a tree 2.3. Drying Lumber 2.4. Seasoning of Lumber 2.5. Shrinkage or Drying in a wooden lumber 2.6. Veneer	2 5.5 1.5 3 1 2.5	24
3	<b>Wood Finishing</b> 3.1 Procedure for preparing the surface 3.2 Sand Paper 3.3 Productions and Manufacture of Shellac 3.4 Finishing Material 3.5 Stain 3.6 Applying Oil and Wax Finishes 3.7 Shellac Finish 3.8 Varnish 3.9 Nitrocellulose Lacquer 3.10 Polyester 3.11 D.D. Varnish 3.12 Paints 3.13 Spray Gun 3.14 Hand Tools for Finishing	20 5.5 5 20.50 15 6 5 3 8 3 3 6 13 9	85 30 30 55 50 40 40 20 58 24 24 60 70 40
<b>TOTAL</b>		<b>140.5</b>	<b>660</b>

**LIST OF TOOLS, MACHINERY & EQUIPMENT**

<b>Name of Trade</b>	<b>Carving, Lacquer &amp; Polishing</b>
<b>Duration</b>	<b>6-Months</b>

Sr. No.	Name of Item/ Equipment / Tools	Quantity
1.	Spoke Shave Plane	25 Nos.
2.	Oil Cane (Plastic Made)	25 Nos.
3.	Spray Gun	5 Nos.
4.	Compressor	1 No.
5.	Spray Polish Booth	1 No.
6.	Heavy Duty Goggles	25 Nos.
7.	Mask	25 Nos
8.	Gloves	25 Nos.
9.	Safety Shoes	25 Pairs
10.	Safety Uniform (Dangri)	25 Pairs

## List of Consumable Material

Sr. No.	Name of Item/ Equipment / Tools	Quantity
1	Chalk Powder	1 box
2	Zink Powder	1 Box
3	Blue Powder (Neel)	5 Packets
4	Varnish Clear	1 Packet
5	Turpentine Oil	1 Litre
6	Kerosene Oil	2 Litre
7	Thinner	200 Litre
8	Sealer	100 Litre
9	Lacquer	100 Litre
10	Enamel (White Paint, Black Paint, Yellow Paint, Red Paint, Blue Paint, Crimson Paint)	1 packet each
11	Screen Water Colours (White, Black, Yellow, Red)	1 packet each
12	Florescent Powder (Red, Lemon yellow, Golden yellow, Orange, Pink, Blue, Green)	1 packet each
13	Venile Sheet (White, yellow, blue, red, green, black)	1 each
14	Glue	25 Kg.
15	Emery Paper	5rolls
16	Cotton	2 Rolls (Large)
17	Cloth White (Malmal)	10 meters
18	Sanding Paper	100 Metre
19	Bleaching Acid	20 Litres



## **EMPLOYABILITY OF PASS-OUTS**

The pass-outs of this course can find job / employment opportunities in the following sectors / areas:-

1. Wood working manufacturing industries.
2. Work in specific field like kitchen, doors and cabinets etc.
3. Interior decoration like panelling and ceiling
4. Handicrafts Entrepreneur
5. Wood work contractor.
- 5 Own business/ workshop

## **MINIMUM QUALIFICATION OF INSTRUCTOR**

3- Years Trade Certification in Wood Working Technology with 6 Years relevant experience

OR

2-Years Trade Certificate in Wood Working / Carpenter with 10 Years relevant Industry / Teaching experience.

And

1- Year Painter Trade certificate with 10 years relevant industry / teaching experience.

OR

Bachelor in Fine Arts with 2 Years relevant Industry / Teaching experience

## REFERENCE BOOKS

1. NAQSH-E-GOHAR by Khursheed Gohar
2. FUNN-E-KHATATI by Sabri Publishers
3. Handicraft Making Shops
4. Funn-E-Chobkari By MUHAMMAD SHAREEF ZIA

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