

**PUNJAB SKILLS DEVELOPMENT FUND EXAMINATIONS,
LIST OF EQUIPMENT, TOOLS & MATERIAL
FOR BATCH-IV 2014, (3)THREE MONTHS COURSE**

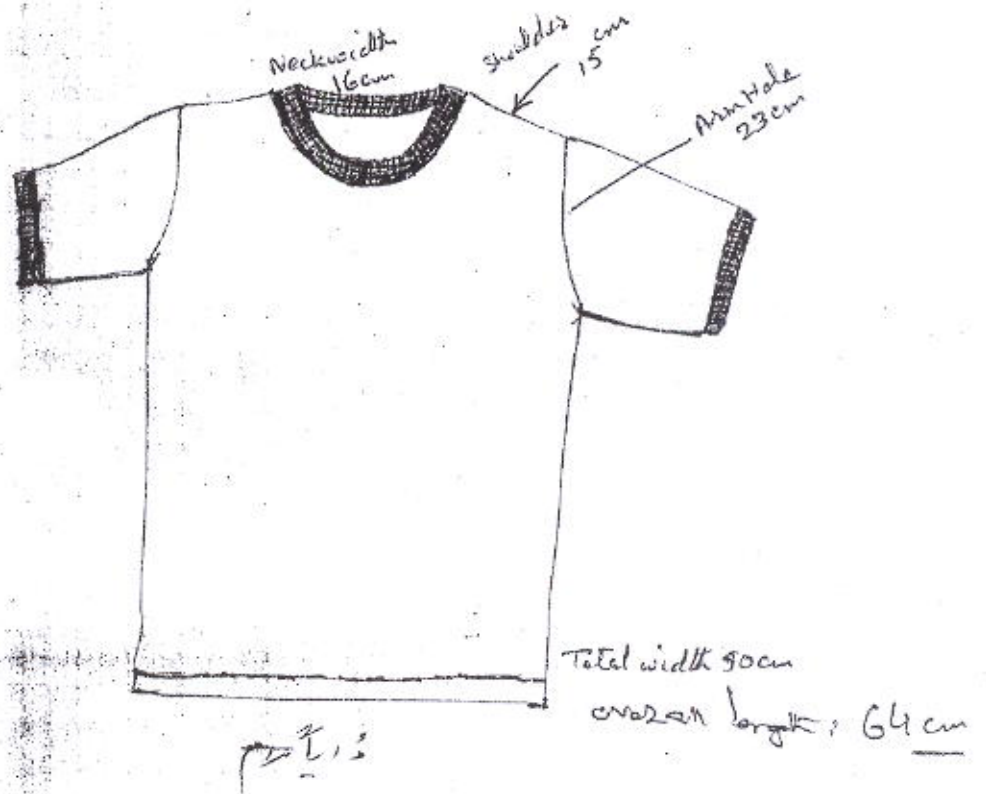
Code	Subject	Material List
05-	Building Painter	<p>Material for each trainee</p> <p>ریگ مار، راؤ سینا، برنٹ سینا، ٹرکی عزیز، وارنش، تارپین تیل، سہلا سیٹ، ریڈی میڈ پوٹیشن، پینٹ برش 3"، 3" x 3" اور پورڈیٹس، کاٹن، خالی ٹینک 2 پینٹ والا۔ ایسے تمام اوزار مثلاً میٹرنگ ٹولز وغیرہ جو کہ کورس کی تمام جابوں کو بنانے کیلئے ضروری ہیں۔ ٹرینوں کی تعداد کے مطابق صحیح اور کام کیلئے بالکل درست ہونے چاہئیں۔</p>
06-	Chef	<p>Material for each trainee</p> <p>Q.1 Carrots 100 gm, Potato 100 gm, Peas 20 gm, Cream 50 gm, Mayonaise 50 gm, Salt 20 gm, Black Pepper 50 gm.</p> <p>Q.2 Dawn burger bun 1, Chicken Boneless 100 gm, Green chillies 50 gm, Green onion 100 gm, Ginger 20 gm, Garlic 20 gm, Bread crumbs 50 gm, Salt 2 tbs, Black pepper powder 1 tbs, Soya sauce 1 tbs, Egg 1, Lettace leaves 2, Butter 1 tbs, Mustard paste 1 tea spoon.</p> <p>Utensils required for each trainee Knife 1, Chopping board 1, Sauce pan 1, Cooking spoons 2, Frying pan 1, Serving plate & spoon 1, Mixing bowl 1, Serving plate for salad 1.</p> <p>General Equipment required in Cooking Lab Cooking Range</p>
07-	Computer Applications	<p>Equipment for each trainee</p> <p>Pentium IV computer systems, Window XP, MS Word, MS Excel & Inpage softwares installed, HP Laser jet printer, A4 size blank pages.</p>
08-	C.N.C Lathe Machine Operator	<p>Material for each trainee</p> <p>M.S round (or) Aluminium round size ϕ 30mm x 65mm.</p> <p>Machinery/Equipment C.N.C Lathe machine with required accessories facing and turning tool.</p> <p>Hand Tools for each trainee Vernier caliper 150 mm, Depth gauge 150 mm, Flat file 200 x 3</p>
12-	Electrical Supervisor	<p>Material required each trainee</p> <p>P.V.C wire (1/0.044) 8 meter, Fuse complete 4, Magnetic connector 2, Over load relay 1, Time relay 1, Wooden screws as per requirement, Three phase motor with starter, Electrician tool kit, 3 phase motor etc. tools/instruments required for making practical training exercises, prescribed in trade training course should be kept ready in working condition compatible to the number of candidates appearing in the trade test.</p>
13-	Electrical Technician	<p>Material required each trainee</p> <p>Motor 380 V (3 phase) 1 for class, Reverse & forward switch 1, Fuse complete 3, Cable 3 core 3/0.29 03 meters, PVC wire 3/0.29 10 meters, PVC Pipe 1/2" 12 meters, PVC Junction Box 1/2" 1, PVC bend 1/2" 3, PVC clamp 1/2" 12, Wooden Screw 1/2" & 1-1/2" 24, PVC Connector 1.</p>
14-	Electrical Wiring	<p>Material required</p> <p>Switch plate/plastic sheet 4" x 4" 4, Two way switch 2, Lamp holder 1, Incandescent lamp 1, Fuse or circuit breaker 1, PVC bend 3/4" 1, PVC box/board 4" x 4" 4, PVC Clamp/Saddle 3/4" 12, PVC connector 10 Amp 1 strip, PVC Junction box 3 way 3/4" 1, PVC pipe 3/4" 1 length, PVC wire 3/0.029" 12 meter, Win board size (800mm x 1200mm) 1, Wooden screws assorted sizes as per requirement.</p> <p>The general items, tools, equipments, accessories, machinery, measuring instruments and consumable used in the training exercises should also be kept in adequate quantity and working order to meet the practical test requirement.</p>
16-	Fabric Cutting Expert	<p>Material required</p> <p>شینڈرڈ سائز پیرن ٹراؤڈر (ویسٹ سائز 71cm، ہیپ 96، فوک 26cm، لمبائی 104cm، کٹنگ کیلئے بڑی پھیل 1 عدد، ہیڈ فٹھرک 2-1/2 میٹر، کٹیچی بڑی 12" 1 عدد، ٹیرنگ چاک 1 عدد، سکیل 50 سنٹی میٹر ڈوان 1 عدد، ٹرینگ ویسل 1 عدد، سٹول 1 عدد</p>

17- **Fitter General** Material required
M.S Flat 61 x 61 x 5.5mm Flat file 1, 250 x 2, 150 x 1, 200 x 3,
Triangular file 150 x 3, Try square, Vernier caliper 150mm, Bevel protector,
Centre punch, Marking Hammer 500gm, Hand hacksaw with Blade,
Line scribe, Marking gauge with V. Block, Bench vice with work bench,
Micro meter 25 to 50 & 50 to 75mm.

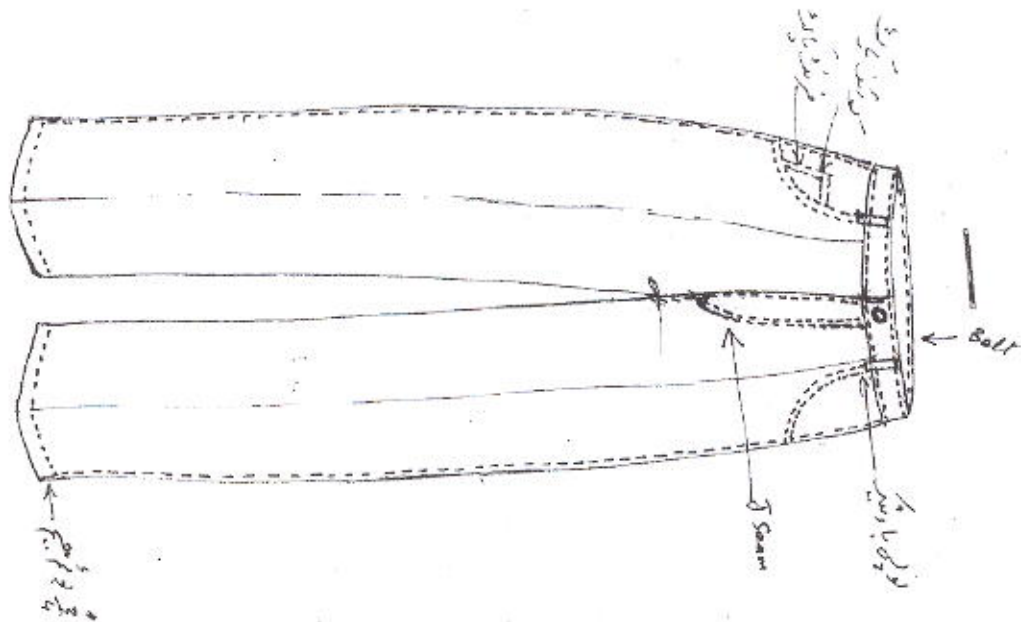
18- **Gemstone Carving** Material required each trainee
Marble(size of Marble slice 40mm x 45mm)
Tools
Diamond files, Diamond Bits and Burs, Diamond laps, Stencil.
Consumable Items
Sand paper(180-320-600-1000)mash, Cotton buff, Polishing Pad, Pink Bar.
Machinery & Equipment for 10 trainees
Trim Saw, Dual Grinder, Carving Machine, Polishing Machine.

20- **House Carpenter** Material for each trainee
Shisham wooden piece 2'-6" x 3 $\frac{1}{8}$ " x 1 $\frac{5}{8}$ " 1, Glue 100 gm,
Nail 1 $\frac{1}{4}$ " 6, Lubricating oil 50 ml.

23- **Industrial Stitching Machine Operator (Knit Wear)** Material/Equipment/Machinery for each trainee
قلیت لاک مشین 1 عدد، سنگل نیڈل لاک مشین 1 عدد، اوور لاک مشین 1 عدد (گروپ 20 طلباء)
راؤنڈ نیک شرتس کنگ شدہ (Knitted fabric) سائز 92cm ہاف پلیو 16 cm، دی گئی ڈرائنگ کے مطابق 1 عدد،
تینٹی 1 عدد، نوپرز 1 عدد، انجیر ٹیپ 1 عدد۔



- 24- **Industrial Stitching** Material/Equipment/Machinery for each group
Machine Operator High speed single needle lock stitch machine 1 p/trainee. Feed of Arm machine 1.
(Denim) Waist Band machine 1, Overlock machine 1, Loop making machine 1,
 Button Hole machine 1, Fabric Shear 1 per trainee, Bartech machine 1,
 Cotton fabric for pockets, 1 . کنگ کی گئی پینٹ جینز کی ویسٹ 30" ، 39" لمبائی ، ڈیڑھ 1/2" .
 Zip 1 per trainee, Measuring tape 1/trainee, Steel button for belt 1/trainee,
 Thread cones 30/50 1 per trainee.




- 25- **Instrument** Material required each trainee
 Technician Copper tube 6 x 1mm 6, Coupling 1, Gasket, Nut bolt, Flanges 1,
 Line Pipe 1/2".
Tools & Equipment for each trainee
 Pressure gauge, Flaring Tool set 1, Tube bender 1, Tube cutter 1,
 Adjustable spanner 1, Open ended spanner set 1, Standard tool kit 1
- 27- **Jewellery Designing** Tools/Equipment for each trainee
Job-1 Personal computer with properly installed Matrix software, keyboard,
 mouse and monitor.
Job-2 Geometric stencils, Jewellery stencils, Tracing papers, Color pencils,
 Pencils, Sharpner, Eraser, Mechanical Pen.
- 28- **Jewellery** **Job-1** Material/Equipment/Tools for each trainee
Manufacturing Piece of carving 15 x 30mm 1, Wax file set medium 1, Wax file set Large 1,
 Wax Bur set 4pcs, Spatulas set 5 pcs, Double Ended pin wise 1,
 Degree gauge 1, Saw frame 1, Saw blades(for wood use) 1, Spirit lamp 1,
 Wax soldering unit 1, Silk cloth 1, Twisted drill set(Assorted size) 1,
 Cleaning brush 1, Eraser 1, Hard needles(for scribing) 1, Small scissors 1,
 Dish for component 1, Divider 1, Black pointer 1, Pin wise wooden handle 1,
 Flexible shaft machine 1, Small disk for talcum powder 1.
Job-2 Tools/Equipment/Material for each trainee
 Needle file(6 pieces) 1 set, Spirit lamp 1, Wooden shellac stick 1, Graver oval,
 Graver flat 1, Table brush 1, Brass pusher square 1, Brass pusher round 1,
 Nose pliers 1, Silicon polishing wheel with mandrel 1, Big flat file 1,
 Bend pliers 1, Tweezers 1, Divider 1, Stone setting burs 2, Small bur BUR 1
 Casting brass piece 30 x 30mm for seven types of stone setting 1,
 Seven types of stones 1.

- 29- **Knitting Machine Operator** **Equipment/Material for each trainee(Hardware)**
Knitting machine, Necessary tools and other related gadgets, Needles, Cones, Sinkers,
Consumable Items
Threads all types for knitted fabric
Equipment/Tools for each trainee
Foot machine with accessories 1, Design books (combine full class), Tracer (combine full class), Tables(3' x 2') 1, Chair without arm 1, Pair of scissors 9"(large) 1, Pair of Scissor 4" (small) 1.
- 31- **Machine Embroidery** **Material required each trainee**
Light colour cotton 1/2 yard, Dark colour cotton 9x9 Pcs, Colour thread for applique cloth 1 reel, Different colour reels 3 reel, Bobbin thread 1 reel, Cord 2 yard, Pencil 1, Eraser 1, Sharpener 1, M Needle(14 No.) 2, Frame 1, Tracing paper 9x9 Pcs.
- 33- **Milling Machine Operator** **Material required each trainee**
M.S flat $1\frac{1}{2}$ " x $\frac{5}{8}$ " (or) 37mm x 16mm length 132mm,
Machinery & Equipment
Universal Milling Machine with required accessories, Shell End Mill Cutter, and Mill Cutter ϕ 12mm, Drill machine with required accessories, Twist drill ϕ 12mm, Vernier Height gauge 300mm
Hand Tools for each trainee
Vernier caliper 150mm, Try Square, Marking tools, Flat file.
- 34- **Millwright** **Consumable items for each trainee**
Grease 1/2kg, Cotton waste 5kg, Mob oil 20+050 1 ltr,
Tools for each trainee
Ball peen Hammer 500 gm 1, Adjustable wrench 12" 1, Ring spanner set 6mm to 32mm 1set, Bearing puller 6" 1(for 1 to 6 trainees)
Material for three trainees(Hardware)
Gear pump 1, Shaft and coupling 1, Shaft and ball bearing 1, Rotary pump 1, Pump 1
- 36- **Motor Winding** **Material required per trainee**
Leathrid paper 9 No. 2 feet, Winding wire swg 28 No. 1kg, Sleeve 2 No. & 4 No. 2 each, Solder wire flux 2 feet, Flexible wire 40/0.0076" 2 feet, Cotton tape roll 2, Kerosene oil 1 ltr for 25 trainees, Grease for bearing 250 gm for 25 trainees, Emery paper 0.5 No. 1, Varnish 250 gm for 5 trainees,
Tools & Equipment for 25 trainees
Pulley puller 5, Screw wrench 5, Screw driver kit 5, Winding machine 5, AVO meter 5, Test board 5, Steel foot rule 5, Soldering iron 5, Combination plier 1 p/trainee, Side cutter 1 p/trainee, Knife 1 p/trainee, Scissors 1 p/trainee,
- 38- **Pipe & General Fitter** **Material required each trainee**
G.I pipe 1/2" 6-1/2', Tee 1/2" 4, Elbow 1/2" 3, Thread seal tape 1.
- 39- **Pipe & Structure Fabricator** **Material for each trainee**
C.S Elbow ϕ 2" 90° long radius schedule 40 SMLS 1, C.S pipe 2" API 5L-B SMLS schedule 40 600mm,
Filler metal
Welding electrodes SWG 10, 12
- 40- **Plumber** **Tools & Equipment for each trainee**
Measuring tape 1, Pipe vice 1, Pipe threading die $\frac{1}{2}$ " x $\frac{1}{4}$ " 1, Pipe wrench 12" 2, Hacksaw frame with blade 1, Oil CAN 1,
Consumable Items
G.I pipe $\frac{1}{2}$ "-800mm, Elbow $\frac{1}{4}$ " 2, Tee $\frac{1}{2}$ " 1, Union $\frac{1}{2}$ " 1, Stop cock $\frac{1}{2}$ " 1, Thread roll, 1.

- 41- P.L.C **Material required for each trainee**
 P.L.C-200(16 inputs and 8 outputs), Computer with S7-200 software,
 Data cable(Connection between Computer and P.L.C), Simulator,
 Tool kit, Connection leads(as per require)
- 43- Scaffolding **Material for one group of 3 trainees**
 M.S tubes(pipe) 100mm, Posts (Standards) 6, Runners(Ledgers) 6,
 Bearer(Transon/Putlogs) 9, Braces 6, Rakers (shoring), Horizontal Tie,
 Top rails MID rails 4,
Couplers
 Right angle couplers 28, Adjustable couplers(swivel) 12, Planks (boards) 8,
 Base plates 6, Sill (sole board) 2, Ladder (5m) 1,Revel pin,
Tools & Equipment for three trainees
 Plumb bob 1, Spirit level 1, Hammer 2, Nylon shilling belts 3,
 Adjustable wrench 2, Safety belt 3, Spanner set 3, Safety shoes 3 pairs,
 Safety Helmet 3, Working gloves 3 pairs.
- 45- Secretarial Studies **Material required each trainee**
 P-IV computer system with keyboard and mouse, MS Office 2000 (MS Word,
 Excel, Power Point)should be installed.High speed internet connection is required,
 HP laser jet printer with A4 size blank papers.
- 46- Shuttering
 Carpenter **Material required**
 Wooden planks popular/subbols 10' - 3" x 6" x 1 $\frac{1}{2}$ " 4,
 Girder 12' x 4" x 6" 3, Planks for (platform of roof slab) 5' - 6" x 6" x 1 $\frac{1}{2}$ " 4,
 Post/Taoki for (vertical sport to Grider) 9' - 6" x 6" x 6" 9,
 Steel chadder patti 10 kg, Nail (1 $\frac{1}{2}$ " , 2" , 3") 50+50+50(150),
 Lubrication oil 150 ml, Wooden keys 4" x 4" x 1' 18
- 48- Steel Fixer **Material required for each trainee**
 Steel bars #2(6 mm) 2 kg, #3(10mm) 17 kg, #4 (12mm), Binding wire 0.2 kg
Equipment & Tools
 Cutting base with chool, Hammers, Cutting chisel set, Tonge set, Plier,
 Bar bending rod, Bar bending bench, Measuring tape(steel),
 Ring base (Bar straighter), Chalk.
- 49- Stone Feceting **Material**
 Quartz Stone/Glass W = 20mm, L = 35mm, H = 30mm.
Machinery required
 Feceting Unit, Facetor, Trim Saw, Dual Grinder.
Tools
 Diamond laps(180-600-1000)mesh, Copper lap(for polish),Lamp, Tweezer.
 Gem Transfer Unit, Index Gears(64 tooth, 96 tooth), Dopp sticks,
Consumable Items
 Diamond Powder, Dopping Wax, Spirit.
- 50- Telecom Technician
 (Line & Mobile) **Material required each trainee**
 Charging pin and charging IC 1, Mobile phone Nokia, any 1.
Tools & Equipment required
 Hot air gun or SMD rework station 5 for 25 trainees,
 Wire cutter 1 for each, Battery charger for testing 5 for 25 trainees,
 Soldering flux and soldering wire 1 for each, Tool kit for mobile repacking 1
 for each trainee.
- 51- Telecommunications **Material required each trainee**
 Cat 5 cable 1 meter, RJ 45 connector 2, DB-9 connector 1.
Tools & Equipment
 Cutter 1, Crimping tools for RJ 45 connector 5 for 25 trainees,
 Soldering iron , Solder wire , Soldering flux 1(for each),
 Phase tester 1 for 25 trainees, 8 port switch with console interface(for testing) 2
 for 25 trainees, Computer (for testing)

- 52- **Tile Fixer** **Material required for each trainee**
Ceramic tiles 42 sft (two colours), Tile size : 6" x 6" (or) 8" x 12" (or) any size but the area of tiles must not be more than one sqft, Cement(Grey) 1/3 bags, White cement 1kg, Sand 3 scft, Floor trape grating 1.
Tools/Equipment for each trainee
Trowel 1, Spirit level 1, Rubber Hammer 1, Lines & Pins 1, Straight edge 1, Tri-square 1, Tile cutter 1, Spacers 20, Measuring tape 1, Mortar pan 1, Safety helmet 1, Safety Goggle 1, Safety Gloves 1 pair, Long Rubber Shoe 1 pair.
- 53- **Tractor Operator** **Material required each trainee**
Diesel 1/4 litres, Engine Oil 1/8 ltr.
Hand Tools
Standard Tool Kit.
Machinery & Equipment
Tractor with Disc Harrow in working condition, Traffic Signal Charts
- 54- **Turner** **Material for each trainee**
Mild Steel Rod ϕ 32mm (or) $1\frac{1}{4}$ ", Length 65mm 1 piece
Machinery & Equipment for each trainee
Lathe Machine with all accessories & tools 1, Drill Chuck 1, Center Drill 2.5mm 1 for 2 trainees, Parting tool 2mm 1 for 2 trainees, Thread pitch gauge(Metric) 1 for 3 trainees, Standard Nut M12(Prepared with standard M12 tap) 1,
Measuring Instruments for each trainee
Vernier Caliper 150mm with 0.05 Accuracy 1, Outside micrometer 0 - 25mm with 0.01 Accuracy 1 for 2 trainees.
Hand Tools
Flat file smooth 10" 1.
- 55- **Welder/Construction Fabricator** **Material for each trainee**
M.S Flat 25.4 x 304.8 x 6.35 2, M.S Flat 25.4 x 177.8 x 6.35 2,
M.S Flat 25.4 x 127 x 6.35 1
Filler Metal
M.S Electrodes SWG 10, 12


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