

**BILL OF MATERIAL REQUIRED FOR EACH TRAINEE OF THE FOLLOWING
TRADES FOR ALL INDIA TRADE TEST OF CRAFTSMAN (SEMESTER PATTERN)
UNDER CRAFTSMAN TRAINING SCHEME TO BE HELD IN THE
MONTH OF JULY – 2017
SEMESTER – I (ENGINEERING & NON ENGINEERING TRADES)**

<u>Trade code</u>	<u>Trade Name/ Raw Material</u>	<u>Quantity</u>
001.	BUILDING MAINTENANCE	
	i) Aggregate	: 100 kg approx.
	ii) Cement	: 50 kg
	iii) Sand	: 200 kg
	iv) Water	: As per requirement
	v) Floor tiles	: 1m ²
	vi) Compaction and finishing tools	: As required
002.	EXCAVATOR OPERATOR*	
003.	MECHANIC REPAIR & MAINTENANCE OF TWO WHEELERS	
	i) General tools used in two wheeler automobile workshop	: As required
	ii) Equipments used in sheet metal shop and welding shop	: As required
	iii) Used condemned two wheeler	: 1 No.
	iv) M.S Plate: 100mm x 60mm x 3mm	: 2 Nos.
	v) Gas welding equipment	: As required
004.	MECHANIC AUTO ELECTRICAL & ELECTRONICS	
	i) All components of a lead acid battery	
	ii) Battery charging circuit	: 1 No.
	iii) Multimeter	: 1 No.
	iv) Common hand tools	: As required
	v) Wire	: As required
	vi) Speedometer	: 1 No.
	vii) Arc welding equipment	: As required
	viii) M.S Rod \varnothing 10mm x 80 mm	: 2 Nos.
005.	SANITARY HARDWARE FITTER	
	i) 1 - Inch galvanized roofing nails	: As required
	ii) Bath tub	: 1 No.
	iii) Pipes	: As required
	iv) Construction adhesive	: As required
	v) Electric drill and bits	: 1 Set
	vi) Measuring tape	: 1 No.
	vii) Mortar mix	: As required
	viii) Pipe wrench	: 2 Nos.
	ix) Plumber's putty	: As required
	x) Screwdriver	: 1 No.
	xi) Trowel	: 1 No.
	xii) Connectors	: As required

Contd..2/-

006/210. ARCHITECTURAL ASSISTANT

- i) Drawing Board : 1 No.
 - ii) Mini Drafter : 1 No.
 - iii) Set square : 1 Set
 - iv) Drawing instruments : 1 Set
 - v) Drawing sheet : As required
 - vi) Pencil, eraser : As required
- OR
- P.C with Auto CAD & Printer : 1 Set

007/206. CARPENTER

- i) Soft Wood 60 mm x 35 mm, 450 mm long : 1 No
- ii) Glue : 20 gm.

008. DOMESTIC PAINTER ***009/214. FOUNDRYMAN**

- i) Induction Melting Furnace of any capacity : 1 No.
- ii) With properly lined crucible & ready to operate : 1 No.
- iii) Ferrous scrap (Mild Steel) at least 1.5 times of the crucible capacity
- iv) Accessories & consumables including a wooden pattern : As required
- v) The tools for melting, poring and casting : As required
- vi) Normal magnifying glass for defect visual inspection : 1 No.

010. GOLD SMITH ***011. INDUSTRIAL PAINTER**

- i) Raw material and equipment required for painting on wooden items
- ii) Raw material and equipment required for soldering
- iii) Computer with M.S Word and M.S Excel softwares : 1 No.

012/208. INTERIOR DESIGN & DECORATION

- i) A₁ CARTRIDGE Plain Papers white :100 GSM or higher : 5 Nos.
- ii) A₁ TRACING Papers 70 GSM or higher : 3 Nos.
- iii) Cello tape small : 1 Nos.
- iv) Drawing pins : As required
- v) Nylon strings 5 m : 1 No.
- vi) Stapler Big : 1 No.
- vii) Pencil : As required
- viii) Eraser
- ix) Cutter
- x) Pen
- xi) Setsquare : 1 No.
- xii) Ruler
- xiii) Calculator
- xiv) Drawing boards measuring 1250 mm x 900 mm fixed over adjustable stand : 1 No.
- xv) Sitting stools with appropriate height with respect to drawing board stands : 1 No.
- xvi) Desk for putting all stuff : 1 No
- xvii) Chairs for invigilators : 2 Nos.

Contd..3/-

- 013. MARINE ENGINE FITTER**
- i) Micrometer : 1 No.
 - ii) Crank pin : 1 No.
 - iii) A complete set of tools : 1 No.
 - iv) A diesel engine in working condition with fully charged battery : 1 No.
 - v) Engine oil : As required
 - vi) Cotton waste : As required
 - vii) Fuel, Grease : As required
 - viii) Gasket set : 1 No.
 - ix) Fuel filter : 1 No.
 - vi) Measuring instrument : As required
- 014/211. MASON (BUILDING CONSTRUCTOR)**
- i) Bricks : 330 Nos.
 - ii) Cement : 1 Bag
 - iii) Sand : As required
 - iv) Water : As required
- 015. MECHANIC REPAIR & MAINTENANCE OF HEAVY VEHICLES**
- i) Diesel / Petrol driven vehicle in working condition : 1 No.
 - ii) Set of tools : 1 No.
 - iii) Battery, Battery charger in working condition : 1 No. each
 - iv) Cotton waste
 - v) Gear oil
 - vi) Brake fluid
 - vii) Diesel
 - viii) Gear box packing set : 1 No.
 - ix) Emery papers (fine and coarse)
 - x) Hacksaw blades
 - xi) Grease
 - xii) Shims : As required
- 016. MECHANIC REPAIR & MAINTENANCE OF LIGHT VEHICLES**
- i) Light vehicle in working condition : 1 No.
 - ii) Tools and equipment : As required
 - iii) Petrol : As required
 - iv) Engine oil and oil filter : If required
- 017/201. MECHANIC (DIESEL)**
Common with trade code no. 024/205 (Pump Operator - Cum - Mechanic)
- 018/202. MECHANIC (TRACTOR)**
Common with Trade Code No. 024/205 (Pump Operator - Cum - Mechanic)
- 019. MECHANIC COMMUNICATION EQUIPMENT MAINTENANCE**
- i) Transformer winding machine : 1 No.
 - ii) Winding wire, core etc. : As required
 - iii) Zener diode, Veracter diode, LED, LCD, SCR, Diac, Triac, JFET, PNP Transister : 1 No. each

Contd.....4/-

iv) Tool kit	}	1 No.
v) Multimeter		
vi) LCR meter		
vii) Component of radio receiver		
viii) RF signal generator		
ix) CRO		
x) Distortion meter		
xi) TV trainer kit		

020. MECHANIC LENS/PRISM GRINDING

i) Plain silvered mirror 100mm x 80mm x 3mm	: 1 No.
ii) Plain silvered mirror 100mm x 40mm x 3mm	: 2 Nos.
iii) Card board 100mm x 80mm x 3mm	: 1 No.
iv) Card board 100mm x 40mm x 3m	: 2 Nos.
v) Soft wood 110mm x 30mm x 6mm	: 4 Nos.
vi) Supporting lugs	: 12 Nos.

021. PHYSIOTHERAPY TECHNICIAN

i) SWD	: 1 No.
ii) Hot pack	: 1 No.
iii) TENS	: 1 No.
iv) Powder for friction massage	: As required
v) Petrisage	: 1 No.
vi) Bones (Femur, Tibia, Pelvis, Tibia, Humerus)	: 1 No. each

022. PLASTIC PROCESSING OPERATOR

i) Tap & Die of standard size to suit Plain Nut & Bolt	: 1 No. each
ii) Universal testing machine	: 1 No.
iii) PF PP, ABS, POM, SAN, MF, UF, Epoxy	
iv) Injection moulding machine with any suitable mould & material	: 1 No.
v) Melting point tester	: 1 No.

023/209. PLUMBER

i) Cement and sand	: As Required
ii) Floor trap and kitchen sink	: 1 No. each
iii) Hacksaw frame and blade	: 1 No.
iv) Elbow	: 2 Nos.
v) PVC pipe	: One length

024/205. PUMP OPERATOR-CUM-MECHANIC

i) Tools, Equipment, Instruments, Kerosene / Diesel, Cotton waste etc.	: As required
ii) Distilled water	: As required
iii) Battery charger	: 1 No.
iv) Hydrometer & High discharge tester	: 1 No. each

025. RUBBER TECHNICIAN ***026/213. SHEET METAL WORKER**

i) G.I. Sheet 24 SWG: 600mm x 270mm	: 1 No.
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- 027. STONE MINING MACHINE OPERATOR ***
- 028. STONE PROCESSING MACHINE OPERATOR ***
- 029/212. WELDER (GAS & ELECTRIC)**
- i) M.S Plate : 100mm x 100mm x 10mm : 1 No.
 - ii) M.S Plate: 100mm x 50mm x 10 mm : 2 Nos.
 - iii) M.S Sheet: 150 mm x 30mm x 3mm : 3 Nos.
 - iv) Electrodes for arc welding : As required
 - v) Copper coated filler rod for M.S gas welding : As required
 - vi) Arc welding, Gas welding, Gas cutting equipment,
Tools, Accessories, Instruments : 1 Set each
- 203. MECHANIC AUTO ELECTRICIAN AND ELECTRONICS**
Common with Trade Code No. 024/205 (Pump Operator - Cum - Mechanic)
- 204. MECHANIC MOTOR CYCLE**
Common with Trade Code No. 024/205 (Pump Operator - Cum - Mechanic)
- 207. SURVEYOR**
- i) Plane table survey : 1 No.
 - ii) Prismatic compass : 1 No.
 - iii) Offset rod : 1 No.
 - iv) Field book : 1 No.
 - v) Plane table set : 1 No.
 - vi) Plane table accessories : As required
 - vii) Prismatic compass & stand : As required
- 241. ARCHITECTURAL DRAUGHTSMANSHIP**
- i) Drawing Board : 1 No.
 - ii) Mini Drafter : 1 No.
 - iii) Drawing instruments : 1 Set
 - iv) Drawing sheet : As required
 - v) Pencil & eraser, cello tape : As required
- OR
- P.C with Auto CAD & Printer : 1 Set
- 264. COMPUTER HARDWARE & NETWORK MAINTENANCE**
- i) Computer system with antivirus : 1 No.
 - ii) Logical gate, OR gate, AND gate, Nand Gate, NOR gate : As required
- 266/267. MECHANIC AUTO BODY REPAIR / MECHANIC AUTO BODY PAINTING**
- i) MS Plate: 50mm x 50mm x 10mm : 1 No.
 - ii) Micrometer : 1 No.
 - iii) Vernier caliper : 1 No.
- 268. WELDER (GMAW & GTAW)**
Common with Trade Code No. 29/212 (WELDER (GAS & ELECTRIC))

- 269. WELDER (PIPE)**
Common with Trade Code No. 29/212 (WELDER (GAS & ELECTRIC))
- 270. WELDER (STRUCTURAL)**
Common with Trade Code No. 29/212 (WELDER (GAS & ELECTRIC))
- 271. WELDER (WELDING & INSPECTION)**
Common with Trade Code No. 29/212 (WELDER (GAS & ELECTRIC))
- 272. WELDER (FABRICATION & FITTING)**
Common with Trade Code No. 29/212 (WELDER (GAS & ELECTRIC))
- 030. ATTENDANT OPERATOR (CHEMICAL PLANT)**
- i) Four jaw chuck : 1 No.
 - ii) Pendulum : 1 No.
 - iii) Searle's apparatus : 1 No.
- 031/217. DRAUGHTSMAN (CIVIL)**
- i) Drawing Board : 1 No.
 - ii) Mini Drafter : 1 No.
 - iii) Drawing instrument : 1 Set
 - iv) Drawing sheet : As required
 - v) Pencil & eraser, cello tape : As required
- OR
- P.C with Auto CAD and Printer : 1 Set
- 032/224. DRAUGHTSMAN (MECHANICAL)**
- i) Drawing Board : 1 No.
 - ii) Mini Drafter : 1 No.
 - iii) Drawing instrument : 1 Set
 - iv) Drawing sheet : As required
 - v) Pencil & eraser, cello tape : As required
- OR
- P.C with Auto CAD and Printer : 1 Set
- 033/231. ELECTRICIAN**
Common with Trade Code No. 041/234 (Lift Mechanic / Lift & Escalator Mechanic)
- 034/219. ELECTRONICS MECHANIC**
- i) Transformer 9V
 - ii) 5% 1/4W Resistor 470Ω
 - iii) 25V Electrolytic capacitor 220μf
 - iv) Ceramic capacitor 0.1μf
 - v) 25V Electrolytic capacitor 10μf
 - vi) In4001 Diodes : 4 Nos.
 - vii) LED 5 mm Red : 1 No.
 - viii) Regular IC LM7805 : 1 No.
 - ix) Fuse 0.5A : 1 No.
 - x) Switch SPDT : 1 No.

xi) CRO Dual trace 20MHz	: 1 No.
xii) Computer with MS-Office	: 1 No.
xiii) Printer	: 1 No.
xiv) Live power socket	: 1 No.
xv) Bulb of suitable rating	: 1 No.
xvi) Holder with two wires	: As required
xvii) Standard wire gauge	: 1 No.

035/233. ELECTROPLATER

Common with Trade Code No. 041/234 (Lift Mechanic / Lift & Escalator Mechanic)

036/227. FITTER

i) M.S. Flat 60mm x 40mm x 10mm	: 2 Nos.
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037. INSTRUMENT MECHANIC

i) Voltmeter	: 1 No.
ii) Ammeter	: 1 No.
iii) 12 volt battery	: 1 No.
iv) Resistors	: As required
v) Capacitors	: As required
vi) Inductors	: As required
vii) Graph paper	: 2 Sheets
viii) Transistor kit	: 1 No.
ix) Single phase transformer	
x) Multimeter	
xi) Micrometer	
xii) Vernier caliper	
xiii) Vernier height gauge	

038. INSTRUMENT MECHANIC (CHEMICAL PLANT)

i) Thermal conductivity apparatus	: 1 No.
ii) Pendulum	
iii) Searle's apparatus	

039/220. INFORMATION TECHNOLOGY & ELECTRONIC SYSTEM MAINTENANCE / INFORMATION & COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE

i) Digital multimeter	: 1 No.
ii) Connecting leads	: 1 Set
iii) Milliammeter (0 -10 mA)	: 1 No.
iv) Milliammeter (0 -30 mA)	: 1 No.
v) Toggle switch, SPST 1amp	: 1 No. each
vi) Ammeter (0 to 1 A)	: 1 No.
vii) Ammeter (0 to 500 mA)	: 1 No.
viii) Voltmeter (0 to 15 V)	: 1 No.
ix) Cells – 1.5 V	: 08 Nos.
x) Resistor 5 ohms, 10 W	
xi) Resistor 10 ohms, 10 W	
xii) 4 cell battery pack – 2 nos.	
xiii) Resistor 30 ohms, 5 W	

- 040. LABORATORY ASSISTANT (CHEMICAL PLANT)**
- i) Wheat stone bridge
 - ii) Mechanical Board
 - iii) Mechanical recorder
 - iv) Arrangement for mechanical equipment
- : 1 No.
- 041/234. LIFT MECHANIC/LIFT ESCALATOR MECHANIC**
- i) PCB
 - ii) Connecting wires
 - iii) Diodes
 - iv) Resistors
 - v) Digital meter
 - vi) DC supply
 - vii) Ammeter
 - viii) Bread board
 - ix) Two way switch
 - x) Lamp
 - xi) Board & wiring material
 - xii) ELCB
 - xiii) Relay
 - xiv) Megger
- : 1 No.
: As required
: As required
: As required
: 1 No.
: As required
: 1 No.
: 1 No.
: 1 No.
- 042/222. MACHINIST**
- i) M. S. Round \varnothing 65 mm x 80 mm
- : 1 No.
- 043/223. MACHINIST (GRINDER)**
- i) M.S Round \varnothing 45mm x 180mm
- : 1 No.
- 044. MAINTENANCE MECHANIC (CHEMICAL PLANT)**
- i) Simple pendulum
 - ii) Fatty acid
 - iii) Albali
 - iv) Bushed bearing assembly
- : 1 No.
: As required
: As required
: 1 No.
- 045. MARINE FITTER**
- i) Mild Steel Flat 50mm \times 50mm \times 6 mm
 - ii) Steel rule
 - iii) Scriber
 - iv) Centre Punch
 - v) Bal peen hammer
 - vi) Hacksaw
 - vii) Try square
 - viii) Bench vice
 - ix) Surface plate
 - x) Flat file
 - xi) Triangular file
 - x) Surface gauge
 - xi) M.S. Round \varnothing 30 mm x 150 mm
 - xii) Centre lathe fitted with three jaw chuck
- : 1 No.
: 1 No.
: 1 No.

xiii) Cutting tool	: As required
xiv) Centre drill	: 1 No.
xv) Spanner	: As required
xvi) Vernier calliper	: 1 No.
xvii) Outside caliper	: 1 No.
xviii) Micrometer	: 1 No.

046. MECHANIC MINING MACHINERY ***047/216. MECHANIC AGRICULTURE MACHINERY**

Common with Trade Code No. 055/215 (MECHANIC MOTOR VEHICLE)

048. MECHANIC COMPUTER HARDWARE

i) Transformer upto 500 VA	: 1 No.
ii) Fixable faulty stepper motor	: 1 No.
iii) Various resistors of different values	: As required
iv) Analog multimeter	: 1 No.
v) Voltmeter	: 1 No.

049/273. MECHANIC CONSUMER ELECTRONICS MECHANIC CONSUMER ELECTRONICS APPLIANCES

Common with Trade Code No. 034/219 (Electronic Mechanic)

050 MECHANIC-CUM-OPERATOR ELECTRONIC COMMUNICATION SYSTEM

i) Megger earth tester	: 1 No.
ii) Electrode	: As required
iii) Copper wires	: As required
iv) Resistors of different values	: 3 Nos.
v) Multimeter	}
vi) Radio receiver PCB	
vii) 2 Amps Autotransformer	
viii) 0-300 V AC voltmeter	
ix) 0-2 A AC ammeter	
x) Load (Choke)	
xi) MC type voltmeter	
xii) MI type voltmeter	
xiii) MC type ammeter	
xiv) MI type ammeter	
xv) Screw driver kit	
xvi) 50 W Solar panel	
xvii) Rheostat	
xix) DC generator	
xx) Pliers	: 1 No.

051. MECHANIC INDUSTRIAL ELECTRONICS

i) Lamps with lamp holders	: 2 Nos.
ii) Connecting wires	: As required
iii) Switches	: 2 Nos.

Contd.....10/-

iv) Test lamp	}		
v) Relay			
vi) Multimeter			
vii) SCR			
viii) DIAC			
ix) UJT			
x) MOSFET			
xi) IGBT			
xii) Different logic gates		}	
xiii) TTL and CMOS ICs			
xiv) Assorted resistors			
xv) Capacitors			
xvi) Transistors			
xvii) PCB			
xviii) CRO with probes			
xix) Function generator			
xx) Regulated power supply and connecting wires			
		: 1 No.	
		: As required	
		: 1 No.	
		: 1 No.	
		: As required	

052/225. MECHANIC MACHINE TOOL MAINTENANCE

i) MS Flat 50mm × 50mm × 8mm : 1 No.

053. MECHANIC MECHATRONICS

i) MS Plate 22 mm x 35mm x 65mm : 1 No.

054. MECHANIC MEDICAL ELECTRONICS

i) Screw driver set		: 1 No.	
ii) Soldering iron		: As required	
iii) Digital Multimeter		: 1 No.	
iv) Resistors		: As required	
v) Transistors		: As required	
vi) FET	}		
vii) SCR			
viii) LED			
ix) DIAC			
x) Diode			
xi) Transformer			
xii) Ampere Meter			
xiii) Connecting wires			
xiv) Logic Gate circuit maker			
			: 1 No.
			: As required
			: 1 No.

055/215. MECHANIC MOTOR VEHICLE

i) Voltmeter or Multimeter	}	
ii) Hydrometer		
iii) Hacksaw blade & frame		
iv) Try square		
v) Files (bustard and smooth)		: As required
vi) File brush		: 1 No.
vii) Measuring instruments (Steel rule / Vernier caliper)		: 1 No.
viii) Bench vice fitted on work bench		: 1 No.
ix) MS Flat 75mm x 45mm x 5mm		: 1 No.

056/218. MECHANIC REFRIGERATION AND AIR-CONDITIONING

- i) Capillary tube 50cm : 1 No.
 ii) Refrigerator : 1 No.

057. MECHANIC RADIO AND TELEVISION

- i) Different types of conductors : As required
 ii) Thermistor : 3 Nos.
 iii) Bread Board : 1 No.
 iv) Resistor : 5 Nos.
 v) Capacitor : 5 Nos.
 vi) Speaker (small) : 1 No.
 vii) Diode : As required
 viii) Power supply : As required

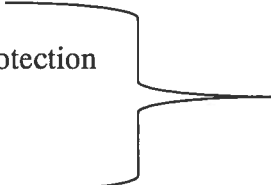
058/226. OPERATOR ADVANCE MACHINE TOOL

- i) MS Flat 100 mm × 50 mm × 6 mm : 1 No.
 ii) MS Flat 55 mm × 55 mm × 5 mm : 1 No.
 iii) Cutting tools & measuring instruments : As required
 iv) Sensitivity drilling machine : 1 No.

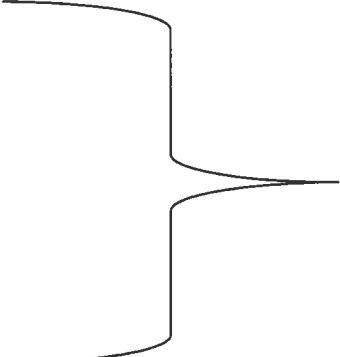
059. PAINTER GENERAL

- i) Electric wire of different gauges & colours : As required
 ii) Screw Driver long & short : 1 No. each
 iii) Tester : 1 No.
 iv) Plier : 1 No.
 v) Pencils of different hardness : 1 No. each
 vi) Colors : As required
 vii) Brush of various sizes : As required
 viii) Hand tools : As required
 ix) Machine tools : As required

060. RADIOLOGY TECHNICIAN

- i) MAS meter
 ii) Tools required for radiation protection
 iii) CT scan machine
 iv) Interlock control system
 iv) MRI machine
- 
- : 1 No.

061/235. SPINNING TECHNICIAN

- i) Wooden blocks 250mm x 50m x 50mm : 2 Nos.
 ii) Nylon hammer
 iii) Saw for wood cutting
 iv) Plane tool
 v) Chisel for wood
 vi) Right angle
 vii) Measuring scale
 viii) Drill machine
 ix) Hexa frame
 x) File
 xi) Divider
- 
- : 1 No.

- 062. SURVEYOR**
 i) Chain : 20 mtr
 ii) Peg : 10 Nos.
 iii) Offset rod : 1 No.
 iv) Field book : 1 No.
- 063/236. TEXTILE MECHATRONICS**
 i) Multimeter : 1 No.
 ii) D.C Supply (0-6 V) : 1 No.
 iii) Connecting wires : As required
 iv) Resistance : As required
 v) Ammeter : 1 No.
 vi) Voltmeter : 1 No.
- 064/237. TEXTILE WET PROCESSING TECHNICIAN**
 i) MS Round \varnothing 40mm x 100mm : 1 No.
 ii) Resistances : As required
 iii) Wires : As required
 iv) Ammeter : 1 No.
 v) D.C supply : 1 No.
 vi) Tools : As required
 vii) Feeler gauge
 viii) Vernier caliper
- 065/228. TOOL & DIE MAKER (DIES & MOULDS)**
 Common with Trade Code No. 66/229 (TOOL & DIE MAKER (PRESS TOOLS, JIGS & FIXTURES))
- 066/229. TOOL & DIE MAKER (PRESS TOOLS, JIGS & FIXTURES)**
 i) MS Flat 90mm x 55mm x 10mm : 1 No.
 ii) \varnothing 2 drill bit : 1 No.
- 067/221. TURNER**
 i) M.S Flat 82mm x 82mm x 10mm : 1 No.
 ii) Hacksaw : 1 No.
 iii) Drilling machine : 1 No.
 iv) Different files : As required
- 068. VESSEL NAVIGATOR**
 i) Trawl knot : 150 mtr
 ii) Double trawl knot : 150 mtr
 iii) Reef knot : 150 mtr
- 069/238. WEAVING TECHNICIAN**
 Common with Trade Code No. 64/237 (TEXTILE WET PROCESSING TECHNICIAN)
- 070/232. WIREMAN**
 Common with trade code no. 041/234 (Lift Mechanic / Lift & Escalator Mechanic)

- 230. METAL CUTTING ATTENDANT (FOR VISUALLY IMPAIRED PERSON) ***
- 265. TECHNICIAN POWER ELECTRONICS SYSTEMS**
Common with trade code no. 034/219 (Electronic Mechanic)
- 274. REFRACTORY TECHNICIAN**
i) M.S Plate 50mm x 50mm x 6mm : 1 No.
ii) M.S Flat 30mm x 8mm x 200 mm : 1 No.
- 275. MECHANIC AIR-CONDITIONING PLANT**
i) M Plate 55mm x 45mm x 5mm : 1 No.
ii) M.S Plate 55mm x 32mm x 5mm : 1 No.
- 276. CIVIL ENGINEERING ASSISTANT**
i) Drawing Board : 1 No.
ii) Mini Drafter : 1 No.
iii) Drawing instrument : 1 Set
iv) Drawing sheet : As required
v) Pencil & eraser, cello tape : As required
OR
P.C with Auto CAD & Printer : 1 Set
- 277. INFORMATION TECHNOLOGY**
i) Various resistors : As required
ii) Capacitors : As required
iii) Diodes of different values : As required
iv) Motherboard with all connected parts : 1 No.
- 71. CABIN ROOM ATTENDANT**
i) A type extinguisher : 1 No.
- 72. COMPUTER AIDED EMBROIDERY & NEEDLE WORK***
- 73. CORPORATE HOUSE KEEPING***
i) Seasonal flowers and fillers : As required
- 74. COUNSELLING SKILLS**
i) Paper, Pencil, Eraser, IQ Tests etc.
- 75. CRECHE MANAGEMENT**
i) Cereals
ii) Milk
iii) Sugar
iv) Butter
v) Oil
vi) Spices
vii) Spices : As required
viii) Wheat flour
ix) Rice
x) Dal
xi) Chart Paper
xii) Pen
xiii) Pencil

76. **DRIVER CUM MECHANIC***
77. **DATA ENTRY OPERATOR ***
78. **DOMESTIC HOUSE KEEPING**
- | | | |
|--------------------|---|--|
| i) Soap Solution | } | |
| ii) Hard Brush | | |
| iii) Floor cleaner | | |
| iv) Rags & Dusters | | |
| v) Squeeze | | |
| vi) Warning Board | | |
| vii) Paper & Pen | | |
- : As required
79. **EVENT MANAGEMENT ASSISTANT***
80. **FIREMEN***
81. **FRONT OFFICE ASSISTANT**
- | | |
|--|----------------------|
| i) Desktop / PC / laptop | : 1 No. |
| ii) MS office package (word, Excel, PowerPoint) | : 1 No. |
| iii) Application Software for use in Front Office of Hotel Like: | |
| a) Opera | |
| b) Fidelio | |
| c) Champagne | |
| iv) Printer and printer table | : 1 No. |
| v) Multimedia Projector along with screen | : 1 No. |
| vi) Minimum 512 KBPS broadband Connectivity | : 1 No. |
| vii) Flip Chart & colorful markers | : 1 No. |
| viii) Telephone Equipments | : 1 No. |
| ix) First Aid Box | : 1 No. |
| x) Sundry Equipment | : As per requirement |
82. **HOSPITAL WASTE MANAGEMENT ***
83. **INSTITUTION HOUSE KEEPING**
- | | |
|-------------------------|---------------|
| i) Paper | : As required |
| ii) Pencil | : As required |
| iii) Cleaning equipment | : As required |
| iv) Detergents | : As required |
| v) Seasonal flowers | : As required |
84. **INSURANCE AGENT***
85. **LIBRARY & INFORMATION SCIENCE***
86. **MEDICAL TRANSCRIPTION**
- | | |
|---|--|
| i) Appropriate samples for preparation of Radiology / Pathology reports | |
| ii) Voice files / Recorded authentic physician's dictation | |
| iii) Appropriate samples for proofreading exercises | |

- 87. NETWORK TECHNICIAN***
- 88. OLD AGE CARE**
 i) Chart paper : 1 No.
 ii) Apple : 1 Kg.
 iii) Table salt : As required
- 90. PRE / PREPARATORY SCHOOL MANAGEMENT**
 i) Chart paper (white) : 1 No.
- 91. SPA THERAPY**
 i) Yoga Mat : 1 No.
 ii) Dummy for cardio pulmonary resuscitation
 iii) Stones for massage
- 92. TOURIST GUIDE***
- 93/251. BAKER & CONFECTIONER**
 i) Flour : 950 gm
 ii) Salt : 10 gm
 iii) Sugar : 25 gm
 iv) Margarine : 200 gm
 v) Yeast : 26 gm
 vi) Eggs : 3 Nos.
 vii) Milk powder : 15 gm
 viii) Baking powder : 2 tsp.
 ix) Ripe Bananas : 6 Nos.
 x) Cinnamon powder : ½ tsp.
 xi) Castro Sugar : 115 tsp.
 xii) Butter : 45 gm
 xiii) Currants : 45 gm
 xiv) Milk : 150 ml.
- 94. CANE WILLOW AND BAMBOO WORKER**
 i) Bamboo raw materials required for making Bamboo product
 ii) Chemicals required for coloring and bleaching
 iii) Cane for demonstration of bleaching
 iv) Hand tools required for silvering and weaving
- 95. CATERING & HOSPITALITY ASSISTANT**
 i) Green vegetable : As required
 ii) Oil : As required
 iii) Spices : As required
 iv) Salt / Sugar : As required
- 96/242. COMPUTER OPERATOR & PROGRAMMING ASSISTANT**
 i) PC with latest specifications
 ii) Laser Printer
 iii) MS-Office (Latest ver.)
 iv) Internet connection

- v) Windows OS (Latest ver.)
- vi) CD
- vii) Google Chrome
- viii) CAT-6 Cable
- ix) Crimping Tool
- x) RJ-45 Connectors
- xi) LAN

97/253. CRAFTSMAN FOOD PRODUCTION (GENERAL) / FOOD PRODUCTION (GENERAL)

- i) Egg
- ii) Salad oil/ Refined oil
- iii) Potato
- iv) Capsicum
- v) Arhar Dal
- vi) Carrot
- vii) Beans
- viii) Cauliflower
- ix) Green Peas
- x) Onion
- xi) Tomato
- xii) Ginger
- xiii) Garlic
- xiv) Green chili
- xv) Green coriander
- xvi) Fresh mint
- xvii) Curd
- xviii) Lemon
- xix) Whole wheat flour (Atta)
- xx) Mustard powder
- xxi) Vinegar
- xxii) Butter
- xxiii) Whole Spices
- xxiv) Herbs, Spices & Condiments
- xxv) Seasoning
- xxvi) Cream
- xxvii) Bread slices

: As required

98. CRAFTSMAN FOOD PRODUCTION (VEGETARIAN)

- i) Equipments (Solar cooker, Microwave, Gas stove, mixer grinder etc.)
- ii) Utensils for cooking and serving
- iii) Basmati Rice
- iv) Milk and milk products
- v) Paneer
- vi) Pulses
- vii) Vegetables
- viii) Spices, Herbs
- ix) Oil and Ghee
- x) Gram flour
- xi) Cornflour
- xii) Mincemeat and Egg

: As required

99/247. CUTTING & SEWING / SEWING TECHNOLOGY

- | | |
|---|------------|
| i) Printed cotton fabric | : 1.5 mtr. |
| ii) Piping (contrast color) | : 25 cm |
| iii) Cotton thread reel | : 2 Nos. |
| iv) Sewing kit (tailor chalk, needle, fabric cutting scissor) | : 1 Kit |
| v) Drafting kit | |
| vi) Brown paper | : 2 Roll |
| vii) Button (Plastic, Medium size, 4 hole) | : 4 Nos. |
- Note: Sewing machine and finishing equipment (stream press etc.) should be made available to students.

100. DAIRYING

- i) Drawing sheet
- ii) Drawing board
- iii) Pencil
- iv) Eraser
- v) Scale
- vi) A Young calf
- vii) Milk to feed
- viii) Pan & leaning agents
- ix) One cream churning machine
- x) Standard set of tools
- xi) Special tools for cream churning machine
- xii) New ball-bearing
- xiii) Detergents and sanitizers/ brushes / rubber mat/ gloves etc.

101/243. DESKTOP PUBLISHING OPERATOR ***102. DIGITAL PHOTOGRAPHER*****104/249. EMBROIDERY & NEEDLE WORK / SURFACE ORNAMENTATION TECHNIQUES**

- | | |
|--|---------------|
| i) Aari | : 1 No. |
| ii) Terricot or poplin | : 1 mt |
| iii) Sequences and beads | : As required |
| iv) Embroidery silken and metallic
Threads for aari work | : 1+1 |
| v) Ivory sheet | : 1 No. |
| vi) Poster color box | : 1 No. each |
| vii) Frame and embroidery kit | : 1 No. |
| viii) Sewing kit, drawing kit, embroidery kit for each trainee | |

105/246. FASHION TECHNOLOGY / FASHION DESIGN & TECHNOLOGY

- | | |
|----------------------------------|-----------|
| i) Brown craft paper | : 1 Sheet |
| ii) Sewing kit | : 1 No. |
| iii) Medium weight cotton fabric | : 1 Meter |
| iv) Sewing Machine | : 1 No. |
| v) Marking chalk | : 1 No. |
| vi) Matching thread | : 1 No. |

- vii) Fusing : 0.25 meters
 viii) A2 size drawing sheet : 1 No.
 ix) Water and poster colours : 1 Set
 x) Drawing brushes : 1 Set
- 106. FINANCE EXECUTIVE***
- 107. FIRE TECHNOLOGY & INDUSTRIAL SAFETY MANAGEMENT***
- 108. FLORICULTURE & LANDSCAPING**
 i) Seeds & soil amendments : As required
 ii) Fertilizer & micronutrients : As required
 iii) Garden tools : As required
- 109. FOOT WEAR MAKER**
 i) HB pencil
 ii) Stitching awl
 iii) Pattern of casual shoe
 iv) Sharpener
 v) Drawing sheet
 vi) Eraser
 vii) Pattern sheet
 viii) Last
 ix) Designing tools
 x) Cutting tools
 xi) Dies
 xii) Leather hide
 xiii) Components for stitching
- 110/239. HAIR & SKIN CARE / BASIC COSMETOLOGY**
 i) Cotton (500GM) : 1 No.
 ii) Cleanser (Lakme or Ayur) (500GM) : 1 No.
 iii) Facial Gel (500 GM) : 1 No.
 iv) Dettol (100GM) : 1 No.
 v) Rose water : 1 Bottle
 vi) Face pack (sandal, Neem etc.) : 6 Nos.
 vii) Toner (Lakme) : 1 No.
 viii) Scissor
 ix) Dryer
 x) Hair Band
 xi) Facial tissues
 xii) Mask brush
 xiii) Yoga mat
- 111. HEALTH SAFETY & ENVIRONMENT***
- 112. HEALTH SANITARY INSPECTOR**
 i) Working chart
 ii) Noise Meter

113. HORTICULTURE

- i) Seed drill, tool kit
- ii) pH meter, litmus paper, samples
- iii) Seeds of green manure and vegetables

114. HOSPITAL HOUSE KEEPING

Paper, Pencil, cleaning equipment and detergents etc. : As required

115. HUMAN RESOURCES EXECUTIVE

- i) PC with printer
- ii) Mic with Spector
- iii) Table chair & food & beverage (Crockery & cutlery & Glass ware)
- iv) LCD projector
- v) A4 Sheets

116. LEATHER GOODS MAKER

- i) Paper
- ii) Pen
- iii) Pencil
- iv) Drawing sheet
- v) Material for cutting components
- vi) Stitching tools
- vii) Designing tools
- viii) Adhesive
- ix) Brush
- x) Pot
- xi) Designing tools
- xii) Ladies purse for finishing
- xiii) Finishing materials

117. LITHO-OFFSET MACHINE MINDER

- i) Negative format for preparation of Wipe-on plate
- ii) Wipe-on coating Solution (A&B)
- iii) Wipe-on developer
- iv) Finisher
- v) Rags / Cotton waste
- vi) Oil can with oil
- vii) Plate for proofing
- viii) Papers for proofing
- ix) Printing Ink
- x) Plate exposing machine (Plate Exposing Machine)

118. MARKETING EXECUTIVE

- i) P.C
- ii) Paper A4 : As required

119/244. MULTIMEDIA, ANIMATION & SPECIAL EFFECTS

- i) PC
- ii) MS-Office
- iii) Flash
- iv) Photoshop

Contd.....20/-

120. OFFICE ASSISTANT CUM COMPUTER OPERATOR

- i) PC
 - ii) MS-office
 - iii) Paper A4
- : As required

121. PHOTOGRAPHER

- i) SLR Digital camera with flash
 - ii) Tripod
 - iii) Photo paper
 - iv) Photo printer
- : As required
: 1 No.

122. PLATE MAKER-CUM IMPOSITOR

- i) Book work negatives of continuous 8 pages (A/4)
- ii) Scale
- iii) Masking sheets
- iv) Tape dispenser with cello tape
- v) Wipe-on developer
- vi) Wipe-on coating solution (A&B)
- vii) Finisher
- viii) PS plates
- ix) Four colour separated formats
- x) PS Developer
- xi) Gum

123/245. PRESERVATION OF FRUITS AND VEGETABLES / FRUITS AND VEGETABLE PROCESSING

- i) Different type of fruits & vegetables
- ii) Orange
- iii) Pine apple and gelatin (Mango flavour)
- iv) Acidity testing equipment

124. PROCESS CAMERAMAN

- i) Scanner

125/258. SECRETARIAL PRACTICE (ENGLISH)***126/259. STENOGRAPHER & SECRETARIAL ASSISTANT (ENGLISH) *****127/260. STENOGRAPHY & SECRETARIAL ASSISTANT (HINDI)*****128/252. STEWARD / FOOD & BEVERAGES GUEST SERVICE ASSISTANT*****129/262. TRAVEL & TOUR ASSISTANT / TRAVEL AND TRAVEL ASSISTANT *****130/263. WEAVING OF SILK & WOOLEN FABRICS**

- i) Loom loaded with warp beam and ready to run
 - ii) Pick wheels for different pick densities
 - iii) Bleached Silk fabric piece
 - iv) Dyes & chemicals
- : As required

- 131. WEAVING OF WOOLEN FABRICS**
 i) Different types of Fibres and chemicals
 ii) Sketch sheet
 iii) Woolen fabric
- 133. DENTAL LABORATORY EQUIPMENT TECHNICIAN**
 i) Chalk
 ii) Stone
 iii) Lemon
 iv) Soap
 v) Casting machine
 vi) Lab coat
 vii) Shoes
 viii) Mask
 ix) Mask
 x) Gloves
 xi) Electroplating apparatus
 xii) Litmus paper (Red and Blue)
- 134. ARCHITECTURAL DRAUGHTSMANSHIP***
- 240. SPA THERAPY**
 i) Items necessary for massage
- 250. COMPUTER AIDED EMBROIDERY AND DESIGNING**
- | | |
|--|-------------------|
| i) Tracing paper | : 1 No. |
| ii) Blue color powder for tracing | : 20 gms |
| iii) Sewing kit (needle, white/crème sewing thread, scissors, inch tape, etc.) | : 1 No. |
| iv) Embroidery thread (2-3 colors) | : 1 of each color |
| v) Computerized embroidery machine | : 1 No. |
| vi) Plain white/crème cotton fabric / knit fabric | : 0.25 m |
| vii) White cartridge sheet | : 1 No. |
| viii) Drawing tool kit (poster colours, color palette etc.) | : 1 No. |
- 254. FRONT OFFICE ASSISTANT***
- 255. HOUSE KEEPER**
- | | |
|-----------------------|---------------|
| i) No. of sheets | : As required |
| ii) Pillow covers | : As required |
| iii) Guest amenities | : As required |
| iv) Guest expendables | : As required |
| v) Bedroom linen | : As required |
| vi) Bathroom linen | : As required |
| vii) Cleaning agents | : As required |
| viii) Pen & Paper | : As required |
- 256. OLD AGE CARE ASSISTANT***
- 257. PRE / PREPARATORY SCHOOL MANAGEMENT ASSISTANT***

- 261. ASSISTANT TOURIST GUIDE***
- 264. COMPUTER HARDWARE & NETWORK MAINTENANCE***
- 277. INFORMATION TECHNOLOGY***
- 278. MILK AND MILK PRODUCTS**
 i) Cream separator machine
 ii) Necessary tools for opening the cream separator machine etc.
 iii) Centrifugal pump
 iv) Rubber seal
 v) Necessary tools for opening the centrifugal pump
- 279. FOOD & BEVERAGES SERVICE ASSISTANT**
 i) Milk
 ii) Soda
 iii) Cordials
 iv) Syrup
 v) Ice
 vi) Logistics
- : As required
- 281. DATA BASE SYSTEM ASSISTANT***
- 282. SOFTWARE TESTING ASSISTANT***
- 283. BAMBOO WORKS ***
- 901. ARCHITECTURAL DRAUGHTSMANSHIP**
 i) Drawing sheets
- : As required

Note: *All Tools, Instruments & Equipment as per standard list prescribed in the Syllabus of the trade, must be kept ready and in good condition.