

**BILL OF MATERIAL REQUIRED FOR EACH TRAINEE FOR ALL INDIA TRADE
TEST OF CRAFTSMAN TRAINING SCHEME (SEMESTER PATTERN)
ENGINEERING/ NON- ENGINEERING TO BE HELD IN JULY -2017
SEMESTER – IV**

- 30. ATTENDENT OPERATOR**
i) Ball mill
ii) Graduated Cylinder
iii) Packed bed column
- 31/ 217. DRAUGHTSMAN CIVIL**
i) Theodolite
ii) Tape
iii) Levelling staff
- 32/ 224. DRAUGHTSMAN (MECHANICAL)***
- 33/ 231. ELECTRICIAN**
i) 31/2 Lane U.G Belted cable : 2 meter
- 34/ 219. ELECTRONIC MECHANIC**
i) LCD display panel kit
ii) Stabilizer kit
iii) Smart phone kit
- 35/ 233. ELECTROPLATER**
i) Bath arrangement for coating
ii) Micrometer
iii) BNF tester
- 36/ 227. FITTER**
i) M.S. falt 95mm x 65mm x 10mm : 1 piece
- 37. INSTRUMENT MECHANIC**
i) PT 100 RTD
ii) Mercury thermometer
iii) Multimeter
iv) Water bath
v) Heating element
vi) Graph paper
vii) PLC
viii) Valves
ix) Required tools, accessories and instrument
x) Thermocouple

Contd...2/-

- 38. INSTRUMENT MECHANIC (CP)**
 i) DP cell
 ii) Rotameter
 iii) pH meter
 iv) Conductivity meter
- 39/ 220. ITESM/ ICTSM**
 i) Linux server CD
- 40. LABORATORY ASSISTANT (CP)**
 i) Beaker
 ii) Burette
 iii) Cylinder
 iv) Oil sample
 v) Soxhlet's apparatus
 vi) Flash
 vii) Given sample of aniline
- 41/ 234. LIFT MECHANIC/ LIFT & ESCALATOR MACHINE**
 i) 5/8 Passenger lift installed with all control and safety accessories
 ii) Lift oil
 iii) Governor
 iv) Pulley
 v) Working Plank
- 42/ 222. MACHINIST**
 i) C.I block of 100 x 70 x 65 mm : 1 piece
- 43/223. MACHINIST (GRINDER)**
 i) HSS End mill cutter for Resharpending : 01 No.
- 44. MAINTENANCE MECHANIC (CP)**
 i) Reciprocating compressor
 ii) Gear pump
 iii) Bucket
 iv) Weighing machine
- 45. MARINE FITTER**
 i) Mild steel flat size 50 x 50 x 6 mm : 01 No.
 ii) Steel rule, Scriber, Centre punch, Bal peen hammer, Hacksaw, Try square, Bench vice, Surface plate, Flat file, Triangular file, Surface gauge
 iii) Parts of bridge rectifier circuit etc.
- 47/ 216. MECHANIC AGRICULTURAL MACHINERY***
- 48. MECHANIC COMPUTER HARDWARE**
 i) UTP cables – assorted
 ii) Windows operating system CD
 iii) LINUX operating system CD
 iv) Samba server CD

Contd...3/-

- 49/ 273. MECHANIC CONSUMER ELECTRONICS / MECHANIC CONSUMER ELECTRONICS APPLIANCES**
 i) Experiment board
 ii) PNP transistor
 iii) Power supply
 iv) Mill ammeter
 v) Multimeter
 vi) LED
 vii) +5V DC power supply
 viii) Breadboard
 ix) Connecting wires
 x) DTH
- 50. MECHANIC-CUM-OPERATOR ELECTRONICS COMMUNICATION SYSTEM**
 Dish TV antenna, Set top box, Cable, Mechanical tool kit, Constant power supply of 30 V, Resistor 100 Ω , Variable resistor 0 – 1000 Ω , Receiver circuit kit, Multimeter, Connecting leads, Cordless set, Mobile phone set, Electronic technician tool kit
- 51. MECHANIC INDUSTRIAL ELECTRONICS**
 SCADA trainer kit, Commonly used hand tools for electronic instruments, AC & DC power supplies as per requirement, Air supply as per requirement, Wires, Soldering station, PC with window CD, PLC trainer kit with industrial PLC, Sensor, Seven segment display module (DPM), SMPS, CRO, DC motor, Starter, Related tools, instruments, accessories, power supplies and connecting leads/ wires.
- 52/225. MECHANIC MACHINE TOOL MAINTENANCE**
 Centrifugal pump in working condition, A complete set of tools, Measuring/ testing equipments
- 53. MECHANIC MECHATRONICS**
 i) MS ROD 95 mm ϕ 150 mm long : 01 No.
 ii) MS Plate 105 mm* 105 mm* 20 mm : 01 No.
- 54. MECHANIC MEDICAL ELECTRONICS**
 Screw driver set, Soldering iron, Digital multimeter, Connecting wires, Pulse Oximeter, ECG recorder, Micrometer Diathermy, Ultra Sound Diathermy
- 55/215. MECHANIC MOTOR VEHICLES**
 Different components of MPFI system, Running engine, Ignition testing lamp (stroboscope), Spark plug cleaning and testing machine, Tool box with required tools
- 56/ 218. MECHANIC REFRIGERATION & AIR CONDITIONING**
 i) Split Package AC : 01 No.
 ii) FCU : 01 No.
Contd...4/-

57. **MECHANIC RADIO & TV**
Sound Section of DVD player, Probe or Multimeter (Digital), Car music system unit, Probe or digital multimeter, LCD/ LED TV in wrong condition, DVD player (fresh complaint), EX-OR Gate, Gate Tester, Bread Board, Single core conductor wire piece, NAND Gate
LED : 03 Nos.
- 58/ 226. **OPERATOR ADVANCE MACHINE TOOLS**
i) M.S Rod \varnothing 50 x 85 mm long : 01 No.
ii) M.S Block 135 x 105 x 45 mm : 01 No.
59. **PAINTER GENERAL***
60. **RADIOLOGY TECHNICIAN**
CT scan machine, Materials and chemicals required for thermoplastic mould, Material required for maintenance of charts, Equipments and chemicals required for radiographic calibration
- 61/235. **SPININING TECHNICIAN**
Doubling machine in running condition, Full ring frame bobbins, Winding machine intact with all parts, Respective material on each machine, Plumb & dummy disc for spindle gauge, Necessary tools
62. **SURVEYOR**
i) Theodolite with stand : 01 No.
ii) Tape of chai : 01 No.
iii) Pegs : As required
- 63/236. **TEXTILE MECHATRONICS**
Ring frame, Loom, Vernier calipers, Tachometer, Drawing paper, Sketch pen
- 64/237. **TEXTILE WET PROCESSING**
Screen for printing, Chemicals to prepare printing paste with vat dyes, Testing arrangements to assess rubbing fastness, Grey scale for grading, Answer sheets for preparation of reports etc.
- 65/228. **TOOL & DIE MAKER (DIES AND MOULDS)**
i) M.S. Plate 70 x 55 x 16 mm : 01 No.
ii) M.S Rod \varnothing 20 x 25 mm long : 01 No.
- 66/229. **TOOL & DIE MAKER (PRESS TOOLS, JIGS & FIXTURE)**
i) M.S. Plate 65 x 35 x 10 mm : 01 No.
ii) M.S Plate 90 x 75 x 18 mm : 01 No.
- 67/221. **TURNER**
M.S rod ϕ 40 x 100 mm : 1 No.
68. **VESSEL NAVIGATOR**
i) Steel Rope
ii) Rope

Contd...5/-

- 69/238. WEAVING TECHNICIAN**
Drop box loom in working condition, Fully functional projectile loom, Fully functional Rapier loom, Fully function Air jet loom
- 70/232. WIREMAN**
Multimeter, Ammeter, Voltmeter, Single phase Transformer, Wire
- 133. DENTAL LABORATORY EQUIPMENT TECHNICIAN**
Mandibutor Caste (both), Casting machine, Furnace, Wires, Cutters, Marker, Pliers, Web sheet, Carver, Cold cure acrylic, Cold mould seal
- 134. ARCHITECTURAL DRAUGHTSMANSHIP***
- 265. TECHNICIAN POWER ELECTRONIC**
Servo motor drive kit, IC 555 kit, AC drive kit, 3 phase induction motor 1 HP with DOL starter kit, Solar panel, Invertor, load and related accessories, Required tools, meters & accessories, Connecting wires.
- 274. REFRACTORY TECHNICIAN***
- 275. MECHANIC AIR CONDITIONING PLANT**
i) Centralised air conditioning plant
ii) Tools and equipment
- 276. CIVIL ENGINEER ASSISTANT**
i) Brick : 200 Nos.
ii) Sand : As required
iii) Cement : As required
- 277. INFORMATION TECHNOLOGY**
i) S/W installation = Adobe Premier, Adobe after effects
ii) PC for the installation
iii) MY SOL software

NOTE: * All Tools, Instruments & Equipment as per standards list prescribed in the syllabus of the trade/ module must be kept read and good condition.
