



No. 2084 /Dt. 21.11.2024.
(VT-I-3/2024)

To

The Principal,
All Govt.& Private ITI s / TTCs /NSTI of Odisha .

Sub: Bill of Materials for Practical Examinations of Phase-II Mains Examinations AITT-2024 for left over CTS & DST Trainees-Regarding.

Ref: DGT Notification File No DGT-MIS011/3/2024-O/O DIR(TC) Comp.No: 68079)
Dated 12th November-2024.

Sir/Madam,

In inviting a reference to the DGT Notification on the subject cited above, I am to say that Practical Examinations of Phase-II Mains Examinations AITT-2024 for left over CTS & DST Trainees have been scheduled with effect from 25th November-2024 to 29th November-2024.

In view of the above, the Bill of Materials developed by the SCTE&VT, Odisha are enclosed herewith for procurement of Raw Materials & smooth conduct of Phase-II Mains Examinations AITT-2024.

Yours faithfully,

Encl: As above.

M. K. Patra
21/11/2024
Controller of Examinations

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**BILL OF MATERIAL REQUIRED FOR EACH TRAINEES FOR THE FOLLOWING TRADES DURING THE
PHASE –II OF MAINS EXAMINATION ALL INDIA TRADE TEST OF CRAFTSMEN (ANNUAL PATTERN/
DUAL SYSTEM TRAINING) UNDER CRAFTSMAN TRAINING SCHEME FOR LEFT OVER TRAINEES TO
BE HELD IN THE MONTH OF NOVEMBER-2024**

AITT-NOVEMBER-2024

Bill of Materials

Year-1

ELECTRONICS MECHANIC

1. Transformer (12-0-12)V
2. Capacitor
3. Resister
4. Diode IN4007
5. Logic gate lcs
6. Connecting wires
7. Varroa Board
8. TRIAC

ELECTRICIAN

1. Hydrometer
2. 12 volt battery Lead acid 3.150AH
3. 1ph transformer(1KVA)
4. Rheostart,(0-300ohm),1A
5. voltmeter (0-30)V
6. Ammeter((0-500)mA
7. DC power supply 0-100v ,5A
8. watt meter 500w
9. MI volt meter 0-500v
10. MI Ammeter((0-500)mA
11. P.F. meter
12. 3/22 copper wire
13. Battrey charger 12 v 15 A

FITTER

1. 125 X 40 X 10 MM



DRAUGHTSMAN CIVIL

1. Drawing Sheet
2. Cello Tape
3. Eraser
4. Mini Drafter
5. Pencil (H,HB ,2H)
6. Sharpener
7. Sand Paper

MECHANIC DIESEL

1. Diesel ,Kerosene, Engine Oil ,Coolant
2. Distilled Water , Soap, Emery Paper & Cotton Waste

MECHANIC MOTOR VEHICLE

1. Grease
2. Diesel
3. Cotton waste
4. Clearing Brush
5. Gasket

REFRIGERATION & AIR CONDITIONING TECHNICIAN

1. Room air conditioner
2. Refrigerant required for the room air conditioner.
3. Frost free refrigerator

WELDER

1. MS FALT - (120X60X6)mm
2. MS FALT - (120X30X6)mm

WIREMAN

1. P.V.C wire 1/18 S.W.G, 5 amp, 250 V- 5 mtrs
2. Series testing board with 200 watt lamp
3. Condenser 10 μ F 450 V rating
4. Choke of mercury vapor lamp - 125 watt



6. Single way switch 6 amp, 250 volt
7. Connection lead/wire 2.5 mm² P.V.C - as per required
8. 200 watt lamps 250 V
9. 3 phase induction motor

DRAUGHTSMAN (MECHANICAL)

1. Drawing sheet
2. Drawing pencil
3. Eraser
4. Cello tape
5. Sand paper

INDUSTRIAL PAINTER

1. Blue Paint
2. Thinner
3. Water Proof Paper-120 No's
4. Varnish
5. Wood Surface 6" x 12" Size (Each Student)
6. Sand Paper

FOOD PRODUCTION GENERAL

1. Rice-500gm., Sugar-1kg, Flour-500, Oil-500ml, Cumin (whole)-50gm.
2. Carrot-250gm., Bins-250 gm., Cauliflower-1 piece, Patato-500gm, Capsicum-200gm, Peas-100gm, Cucumber-250gm, Onion-500gm, Banana-3 piece.
3. Cottage chesse-500, Curd-250ml, Sunf-25gm, Paneer-250gm.

ATTENDANT OPERATOR CHEMICAL PLANT

1. PH Paper
2. M.S. flat 80*60*5(mm)
3. Hacksaw blade

BAKER AND CONFECTIONER

1. Refined Flour
2. Sugar



3.Butter

4.Egg

5.Baking Soda

MACHINIST

1.MS BAR- \varnothing (50X64) mm

MECHANICAL MACHINE TOOL MAINTENANCE

1.CI Block- (100x100x50)MM

MECHANICS AGRICULTURE MACHINERY

1. Engine assembly

2. Cotton waste

3. Trainees tool kit

4. clutch assembly

5. air compressor

6. Venire caliper

7. Kerosene

PUMP OPERATOR CUM MECHANIC

1.Filter element(Oil type air filter –DF10)

2. Cotton Waste

3. Kerosene

4. Lubricant Oil

5. Wire Brush

6. Soap Oil

7. Diesel

8. Jubilee Clamp-25mm, 50mm

SEWING TECHNOLOGY

1.Fabric

2.Mathing colour thread

3.Printed Fabric

4.Botton



6. Golden Mali
7. Tailor chalk
8. zip
9. Hook

SMARTPHONE TECHNICIAN CUM APP TESTER

1. Different types of Electronics Components
2. Soldering and De-soldering Station
3. Digital Multimeter
4. Mobile Battery

TURNER

1. M.S. Rod ϕ 35 X 75 L

MECHANIC MINING MACHINERY

1. Trainee's kit
2. Micrometer, dial indicator , Draft, mallet, puller
3. Multi cylinder diesel engine
4. Tray, consumables (kerosene oil), Cotton cloth
5. Set of box spanners , Torque wrench , Ring expander , Ring compressor
6. Feeler gauge, Soap oil, Emery paper.
7. Steel rule, Venire caliper
8. Flat bastard file , Smooth file , Die & tap set tools
9. Scriber, Dot punch, Fixed hacksaw
10. M.S flat
11. M.S Rod.

INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE

1. Variable Dc Power Supply 0-30v/1A, Regulated Power Supply – (+5v)
2. Toggles Switch, SPST, SPDT, Lamp
3. Miliammeters-0-10mA
4. Millimeter- 0-30mA
5. Resistor-As Required



6. CRO-30MHZ
7. Base Board (Wooden), Bread Board
8. Step Down Transformer-1no (240v, 12v-0-12v, 24vA)
9. Multi Strand Wire, Hook up Wire (Red and Black)
10. Semiconductor Diode 1N4007, LED (Red, Green, Yellow, White)
11. Logics Probe
12. Ic74LS190

INDUSTRIAL ROBOTICS AND DIGITAL MANUFACTURING TECHNICIAN (NSQF)

1. Gripper
2. Robot Controller
3. Power Supply, Wires and Connectors, Cable Ties
4. Screwdriver
5. Wire Stripper, Multi-meter
6. Electrical Tape or Heat Shrink Tubing Grounding Kit

SOLAR TECHNICIAN (ELECTRICAL)

1. 12V DC/230V AC Normal Inverter,
2. Solar Panels 75W x 2
3. Charge Controller , Load Bank , 12V
4. 100Ahr Battery
5. Solar Batteries 12V, 100 Ah – 2 Nos ,
6. Voltmeter , Ammeter , DC LED Light 5W

Note: *All tools, Instrument and equipment as per syllabus of the trade should be kept ready in working condition.



Year-2

ELECTRICIAN

1. Diode IN4007, Resistor 470 Ω , Step-down transformer 240v/12v, Bread board.
2. Battery 6v, 60A, connecting cable 2.5 mmsq.

FITTER

1. MS FLAT (50X50X6) mm - 2 PC

ELECTRONICS MECHANIC

1. De-soldering machine, SMD components of PCB, flux, multi meter
2. Digital storage Oscilloscope
3. LED module
4. UPS
5. LED light
6. Smartphone ,data cord ,running PC

DRAUGHTSMAN CIVIL

1. Drawing sheet
2. Eraser
3. Pencil (H and HB)
4. Cello tape - 8nos per 20 trainees
5. Sand paper (thin particle A4 size-10 no's per 20 trainees)
6. AUTOCAD software

MECHANIC MOTOR VEHICLE

1. Gear oil (SAE 90)
2. Dial Gauge with magnetic stand
3. Differential oil seal.
4. Digital Multi Meter

REFRIGERATION & AIR CONDITIONING TECHNICIAN

1. Shell & Tube Condenser

WIREMAN



2. Pin Insulator, Shackle Insulator, Aluminium Conductor

3. Service Wire 4sq mm.

DRAUGHTSMAN (MECHANICAL)

1. Drawing sheet

2. Drawing pencil

3. Eraser

4. Cello tape

5. Sand paper

6. Computer in auto cad

TURNER

1. M.S. Rod ϕ 45 X 165 L

MECHANICAL MACHINE TOOL MAINTENANCE

1. MS Rod (DIA 65x100)MM

MECHANICS AGRICULTURE MACHINERY

1. Post hole digger

2. Cotton waste

3. Seed drill

4. Spare parts

5. Trainee too kit

6. Kerosene

MACHINIST

1.Cast Iron block (100x70x70) mm

ATTENDANT OPERATOR CHEMICAL PLANT

1.Humidification & Dehumidification Apparatus

MECHANIC MINING MACHINERY

1.MS FLAT -(50x5) mm x mm



INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE

- 1. PC
- 2. D LINK Wi-Fi Adapter USB type – wireless
- 3. Driver of Wi-Fi Adapted
- 4. Ethernet cable (RJ45)
- 5. TP LINK Wireless access point
- 6. Paw box
- 7. Pen drive -32GB
- 8. Power iOS Software
- 9. Internet Connection

Note: *All tools, Instrument and equipment as per syllabus of the trade should be kept ready in working condition.

