

**BILL OF MATERIAL REQUIRED FOR EACH TRAINEE FOR ALL INDIA TRADE
TEST OF CRAFT INSTRUCTORS UNDER CITS (ANNUAL SYSTEM)
JULY-2019**

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| 01. | WELDER
i) M.S. Plate 100 x 100 x 8 mm
ii) M.S. Plate 100 x 50 x 8 mm
iii) Aluminium sheet 100 x 100 x 2 mm | : 01 No.
: 02 Nos.
: 01 No. |
| 02. | FOUNDRYMAN
i) Sufficient quantity of moulding sand & various binders and additives.
ii) Tools and equipments for determination of AFS No. & sand preparation.
iii) Pattern of test piece as per BIS.
iv) M.S. scraps of sufficient quantity and melting & handling facilities for steel.
v) UTM of suitable tonnage, tools & measuring equipments and BHN Tester. | |
| 03. | CARPENTER
i) Wooden piece: 165mm x 55mm x 55mm | : 02 Nos. |
| 04. | PLUMBER
i) Complete bath tub system with supply lines & drawing lines for fixing & testing.
ii) Worn out/leaked tap & valve. | |
| 05. | SHEET METAL WORKER
i) MS flat plate: 200mm x 60mm x 8mm | : 01 No. |
| 06. | REFRIGERATION & AIR-CONDITIONING MECHANIC
i) Domestic refrigerator
ii) Refrigerant: R 22
iii) Window A/C | : 01 No.
: As required.
: 01 No. |
| 07. | MECHANIC AGRICULTURAL MACHINERY
i) One tractor in working condition.
ii) One DISC plough of two bottom in working condition.
iii) One fodder chaff cutter in working condition. | |

Contd...2/-

- 08. MACHANIC MOTOR VEHICLE**
i) A petrol vehicle in working condition.
ii) A diesel engine in working condition.
- 09. MECHANIC (DIESEL)**
i) A diesel vehicle in working condition.
- 010. MECHANIC (TRACTOR)**
i) One tractor in working condition.
- 011. DRAUGHTSMAN (MECHANICAL)**
i) Drawing sheet : 01 No.
- 012. ARCHITECTURAL ASSISTANT**
i) Drawing sheet : 01 No.
ii) PC with Auto CAD : 01 No.
iii) Printer : 01 No.
- 013. DRAUGHTSMAN (CIVIL)**
i) Drawing sheet : 01 No.
- 014. READING OF DRAWING & ARTIHMETIC**
i) Drawing sheet : 01 No.
- 015. FITTER**
i) MS Flat 100mm x 50mm x 10mm : 01 No.
- 016. MECHANIC MACHINE TOOL MAINTENANCE**
i) Hydraulic trolley type jack in working condition.
ii) Consumables such as repair kit for jack, lubricating oil, packing set : As required.
- 017. MACHINIST (GRINDER)**
i) MS Rod ϕ 40mm x 100mm : 01 No.
- 018. MACHINIST & OPERATOR ADVANCE MACHINE TOOL**
i) MS Flat 90mm x 50mm x 15mm : 01 No.
- 019. TOOL & DIE MAKER (PRESS TOOLS, JIGS & FIXTURES),
TOOL & DIE MAKER (DIES & MOULDS)**
i) MS Flat 75mm x 40mm x 40mm : 02 Nos.
- 020. TURNER**
i) MS Rod ϕ 50 x 160mm : 01 No.

Contd...3/-

021. ELECTRICIAN & WIREMAN	
i) Insulated cutting pliers 200mm	: 01 No.
ii) Screwdriver 200mm	: 01 No.
iii) Electrician's knife 100mm	: 01 No.
iv) MC ammeter 0-1A	: 01 No.
v) MC voltmeter 0-300V	: 01 No.
vi) Tachometer 300-3000RPM	: 01 No.
vii) Test lamp	: 01 No.
viii) DC shunt motor 220V 3HP	: 01 No.
ix) Rheostat 220Ω 1A	: 01 No.
x) Four point starter 15A 220V	: 01 No.
xi) PVC insulated multi stranded copper cable 2.5mm 650V	: 10 m
xii) Fuse wire 15A	: 0.5 m
xiii) Trainees tool kit	: 01 No.
xiv) Voltmeter MI 0-500V	: 02 Nos.
xv) Frequency meter 45Hz-50Hz-55Hz	: 01 No.
xvi) Phase sequence indicator	: 01 No.
xvii) Synchroscope	: 01 No.
xviii) 3φ alternators 5kVA, 415V 50Hz coupled with prime Mover/adjustable speed control	: 02 Nos.
xix) Rheostat 150Ω/1A	: 01 No.
xx) TPIC knife switch 16A, 415V	: 02 Nos.
xxi) DPIC knife switch 16A, 240V	: 02 Nos.
xxii) 100W/240V lamps	: 06 Nos.
xxiii) Connecting wires	: As required.
xxiv) Electrician's knife-75mm and 100mm	: 01 No.
xxv) Steel rule 300mm	: 01 No.
xxvi) Diagonal cutting pliers 150mm	: 01 No.
xxvii) Combination pliers 200mm	: 01 No.
xxviii) Wooden mallet 75mm diameter head with handle	: 01 No.
xxix) Electric soldering iron 125W, 250V, 50Hz	: 01 No.
xxx) Flat file bastard 250mm	: 01 No.
xxxi) PVC insulated copper cable 7/0.914, 650V grade	: 01 m.
xxxii) PVC insulated copper cable 3/0.914, 250V grade	: 01 m.
xxxiii) Cotton cloth 30cm x 30cm	: 01 Piece.
xxxiv) Sand paper-smooth	: 9 sq. cm
xxxv) Resin cored solder	: 25 g
xxxvi) Wire brush	: 01 No.
xxxv) Soldering iron stand with cleaning pad	: 01 No.
xxxvi) Ammeter MI 0-5A	: 01 No.
xxxvii) Ammeter MI 0-10A	: 01 No.
xxxviii) Voltmeter MI 0-300V	: 01 No.
xxxix) Voltmeter MI 0-150V	: 01 No.
xxxx) PF meter 0.5 lag-1-0.5 lead 250V	: 01 No.
xxxxi) Induction motor with starter and loading arrangement 240V 50Hz 1 HP	: 01 No.
xxxxii) Auto transformer input 240V, output 0-270V, 5A	: 01 No.
xxxxiii) Single phase transformer 115V/230V, 1kVA, 50Hz, air cooled	: 01 No.
xxxxiv) Lamp bank 5A, 250V	: 01 No.

Contd...4/-

xxxxv) Connecting cables	: As required.
xxxxvi) 40W fluorescent lamp fitting	: 10 Nos.
xxxxv) DPST switch 250V 16A	: 02 Nos.
xxxxvi) CRO (Dual Trace)	
xxxxvii) CRO Prob	
xxxxviii) Function generator	
xxxxix) Any circuit which produces the wave	

022. INSTRUMENT MECHANIC

- i) Microprocessor kit
- ii) CRO
- iii) Electronic Trainer kit
- iv) Connecting wires
- v) Proximity sensors and switches
- vi) Bi-metallic thermometer
- vii) Tools kit
- viii) DMM
- ix) 8255 PPI device
- x) Zener diode
- xi) Multimeter

023. ELECTRONIC MECHANIC/MECHANIC CONSUMER ELECTRONIC APPLIANCES/TECHNICIAN POWER ELECTRONICS SYSTEM

- i) Computer with C program installed
- ii) Zero crossing detector
- iii) Steam iron
- iv) Microwave oven
- v) Connecting wires
- vi) Tools kit
- vii) DMM

024. COMPUTER HARDWARE & NETWORKING MAINTENANCE

- i) Desktop/Laptop
- ii) Smart Tablet
- iii) Linux Operating System
- iv) Necessary Drivers
- v) Backup and Recovery tools

025. COSMETOLOGY

- i) Manicure Set
- ii) Towel
- iii) Shampoo
- iv) Ammonia
- v) H₂O₂
- vi) Base Coat
- vii) White Nail Paint
- viii) Nail Buffer & Emery Board
- ix) Cold Cream for Massage
- x) Shear Scissors

Contd...5/-

- xi) Tail Comb
- xii) Setting Clips
- xiii) Cutting Sheet
- xiv) Make-up Kit
- xv) Concealer
- xvi) Dark Foundation
- xvii) Pan-Stick
- xviii) Yoga Mats
- xix) Perm end Papers/Wraps
- xx) Perming Rollers
- xxi) Hair SPA Cream
- xxii) Shampoo
- xxiii) Conditioner
- xxiv) Towel
- xxv) Oil For Massage

026. COMPUTER SOFTWARE APPLICATIONS*

027. DRESS MAKING

- i) Brown paper : 02 Sheets.
- ii) Drafting kit : 01 No.
- iii) Sewing kit (needle, white/cream sewing thread, scissors, inch tape, etc. : 01 No.
- iv) Sewing machine : 01.
- v) Plain white/creme cotton fabric : 1/2 Mtr.
- vi) P-4 Computer with design software : 01.
 - a) Coral draw
 - b) Photoshop
 - c) 3D Model
 - d) CAD pattern making software
- vii) Digitizing board : 01.

028. FASHION DESIGN & TECHNOLOGY

- i) Color (different medium) : 01 set.
- ii) Sketching kit : 01 No.
- iii) Cartilage sheets : 05.
- iv) Brown paper : 03 Sheets.
- v) Cotton fabric : ½ Mtr.
- vi) Plastic zipper (6"iunch) : 01.
- vii) Sewing kit : 01.
- viii) Sewing machine : 01.
- ix) Suitable Software : 01.

029. OFFICE MANAGEMENT (ENGLISH)*

030. OFFICE MANAGEMENT (HINDI)*

Contd...6/-

- 031. SEWING TECHNOLOGY**
 i) Brown pattern paper : 5-6 Sheets.
 ii) Pattern making kit : 01 No.
 iii) Fabric for ladies kurta : 2.5 Meters.
 iv) Digitizing board and mouse : 1 System for each student.
 v) Software for pattern making
- 032. SURFACE ORNAMENTATION TECHNIQUES**
 i) Glazed Cotton/silk/satin fabric : ½ Metre
 ii) Tracing Paper : 02 Sheets.
 iii) Embroidery threads : 06 (in different colours)
 iv) Embroidery kit : 01 No.
 v) Zigzag/Ari/Computer embroidery machine : 01 No. each
- 034. SOFT SKILL & ENGLISH COMMUNICATION**
 i) Marker & White Board
- 035. VOCATIONAL SCIENCE & CALCULATION***
- 036. DESK TOP PUBLISHING OPERATOR***
- 037. CATERING & HOSPITALITY**
 Kitchen equipments & Ingredients, Restaurant linen & Equipments, Pineapple, Flour, Sugar, Salt, Eggs, Butter, Cream, Stationary items, Computer system with internet facilities

Note: * All Tools & Equipments and instruments as per syllabus of trades should be kept ready