

## ELECTRICAL TECHNICIAN (701-702)

The institution having the following requisite infrastructure, may apply for accreditation:

**A. Class Room:**

Class room for 20 students (minimum area 225 sq. ft.) should have proper ventilation, well-illuminated black board/white board and availability of adequate furniture and ceiling fans

**B. Workshop :**

The size of workshop for 20 students should be at least 25ft. x 20 ft. with adequate lighting, exhaust and ceiling fans. The workshop should have the following Tool/Equipments/Apparatus or material for Practical Training:

### LIST OF TOOLS

Sl. No	Tools	Quantity	Sl. No	Tools	Quantity
1.	Plier insulated 150mm	5-10 set	19.	Drill S.S. Twist 3mm, 5mm, 6mm	5-10 set
2.	Screw Driver 150mm	5-10 set	20.	File (flat) 200mm 2 <sup>nd</sup> cut	5-10 set
3.	Electrician Knife	5-10 set	21.	File (round) 200mm 2 <sup>nd</sup> cut	5-10 set
4.	Neon Tester	5-10 set	22.	File (half round) 200mm 2 <sup>nd</sup> cut	5-10 set
5.	Electrician connector screw driver	5-10 set	23.	Soldering Iron 125 watts	5-10 set
6.	Heavy duty screw driver 200mm	5-10 set	24.	Soldering Iron 65 watts	5-10 set
7.	Electrician screw driver 250mm	5-10 set	25.	Bench Vice 100mm Jaw	5-10 set
8.	Saw Tenon 250mm	5-10 set	26.	Hacksaw plug tool set 8 to 4 No.	5-10 set
9.	Firmer Chisel 12mm	5-10 set	27.	Rawal Plug tool set 8 to 4 No.	5-10 set
10.	Pocker	5-10 set	28.	Cold chisel 12mm x 200mm flat	5-10 set
11.	Plier flat Nose 150mm	5-10 set	29.	Hand drill machine 0 to 6 mm capacity	5-10 set
12.	Centre Punch 150mm x 9mm	5-10 set	30.	Tri square 150mm	5-10 set
13.	Electric drill machine (portable) 12mm capacity	5-10 set	31.	Pipe vice 50mm	5-10 set

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14.	Oil Cane 0.12 litre	5-10 set	32.	Pipe wrench 0-50mm	5-10 set
15.	Grease Gun (small)	5-10 set	33.	Ball pin hammer 100gm, 500gm & 1kg.	5-10 set
16.	Standard wire gauge	5-10 set	34.	Hand drill machine	5-10 set
17.	Barring Puller	5-10 set	35.	Micrometer 0-100mm	5-10 set
18.	Scissors 150mm blade	5-10 set			

### C. List of Instruments And Equipment

Sl. No	Instruments & Equipment	Qty.	Sl. No	Instruments & Equipment	Qty.
1.	Ammeter 0-1, 0-3, 0-5, 0-10 & 0-30amps	2 each	20.	A.C. Cooler pump motor	1
			21.	A.C. Mixer motor	1
2.	Voltmeter 0-600 VMI & Voltmeter 0-500 V M C	1+1	22.	A.C. Monoblock pump 2800 R.P.M. ½ H.P./One H.P.	1
			23.	Hair Drier	1
3.	Megger (Insulation tester) 500 V	1	24.	O.T.G - One	1
4.	Multimeter (digital)	1		Charge over switch (Manual)	1
5.	Heater-ordinary one K.W. & Room Heater Rod Type one K.W.	2+2		Charge over switch (Automatic)	1
			25.	Installation inverter	1
6.	Electric Iron (Automatic with opne element) 220V-750 watts	2	26.	Washing machine (Manual)	1
7.	Electric Iron steam 220V-1000 watts	2	27.	Generator	1
8.	Electric toaster (ordinary)	2	28.	Alternator	1
9.	Geyser (storage)2KW	1	29.	Clip on Meter Digital 0-200Amp.	1
10.	Kettle ordinary 500 watts Kettle automatic 1000 watts	1+1	30.	Water Meter Single phase 1KW- 220V	1
11.	Heat Convector 220 volts 1000 watts	1+1	31.	Single Phase energy meter (K.W.H.) 5-10Amp. 220V	1
12.	Voltage stabilizer -Automatic 1440 R.P. Single phase transformer step up Single phase transformer step down Three phase transformer step up Three phase transformer step down	4	32.	Three phase energy meter (3phase 4 wire) 10-20 Amp. 440 V	1
13.	A.C. three phase sq. cage 24 slots pole motor	1	33.	Frequency meter 0-60 Hz.	1
14.	A.C. Three phase sq. cage 36 slots pole motor	1	34.	Double Element Hot Plate	1

15.	A.C. Single phase capacitor type motor	1	35.	Micro meter 0-50 mm	1
16.	A.C. Universal (Series) motor single phase	1	36.	3 phase DOL starter 440V - 20Amp.	1
17.	A.C. Ceiling fan motor	1	37.	D.C. 3 point starter 220V, 0-20Amp.	1
18.	A.C. Table fan motor	1	38.	D.C. 4 point starter 220 V, 0-20amp.	1
19.	A.C. Cooler motor	1	29.	Winding Demonstration board of 24 slots/36 slots 4 pole/ 6 pole	1

**D. Physical Facilities :** The institution should have the facilities for Drinking water, Bathrooms & Toilets

**E. Library :** Library should have a minimum 20 books/articles/magazines etc. in related subject.

**F. Faculty & Supporting Staff:**

Faculty & Supporting Staff	Educational/Professional Qualification	No.
Coordinator	Degree/Diploma in appropriate branch with 5 years experience	01
Instructor	Diploma in electrical engineering of ITI Certificate in electrical trade with 2 yrs. Experience	01
Receptionist cum clerk	Relevant to job	01
Assistant	Relevant to job	01

**G. Batch size -** Maximum 20 students in one batch.

**Note:** An institution can run maximum 2 batches for this course.