

ELECTRICAL TECHNICIAN (701 / 702)

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

A. Classroom :

Class room for 25 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 25 students should be at least 25ft. x 20 ft. with adequate lighting, exhaust and ceiling fans.

C. Faculty and 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

D. List of Tools and Equipment :

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) 200 mm 2 nd cut	5-10 set
3.	Electrician Knife	5-10 set	21.	File (round) 200mm 2 nd cut	5-10 set
4.	Neon Tester	5-10 set	22.	File (half round) 200mm 2 nd cut	5-10 set
5.	Electrician connector screwdriver	5-10 set	23.	Soldering Iron 125watts	5-10 set

6.	Heavy duty screw driver 200mm	5-10 set	24.	Soldering Iron 65watts	5-10 set
7.	Electrician screw driver 250mm	5-10 set	25.	BenchVice100 mm Jaw	5-10 set
8.	Saw Tenon 250mm	5-10 set	26.	Hacksaw plug tool set 8 to 4No.	5-10 set
9.	Firmer Chisel12mm	5-10 set	27.	Rawal Plug tool set 8to4No.	5-10 set
10.	Poker	5-10 set	28.	Cold chisel 12mm x 200 mm flat	5-10 set
11.	Plier flat Nose1 50mm	5-10 set	29.	Hand drill machine 0 to 6mm capacity	5-10 set
12.	Centre Punch150 mm x 9mm	5-10 set	30.	Trisquare150mm	5-10 set
13.	Electric drill machine (portable) 12mm capacity	5-10 set	31.	Pipe vice 50mm	5-10 set
14.	Oil Cane 0.12 liter	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.	Scissors150 mm blade	5-10 set			

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	13.	A.C. Cooler pump motor	1
			14.	A.C. Mixer motor	1
2.	Voltmeter 0-600V MI &Voltmeter 0-500 V MC	1+1	15.	A.C. Mono block pump 2800 R.P.M. ½H.P./One H.P.	1
			16.	Hair Drier	1
3.	Mugger (Insulation tester)500V	1	17.	O.T.G-One	1

4.	Multimeter (digital)	1			
5.	Heater-ordinary one K.W. & Room Heater Rod Type one K.W.	2+2	20.	Charge over switch(Manual)	1
			21.	Charge over switch (Automatic)	1
			22.	Installation inverter	1
6.	Electric Iron (Automatic with open element) 220V-750watts	2	23.	Washing machine (Manual)	1
7.	Electric Iron steam 220V-1000watts	2	24.	Generator	1
8.	Electric toaster (ordinary)	2	25.	Alternator	1
9.	Geyser (storage) 2KW	1	26.	Clip on Meter Digital 0-200Amp.	1
10.	Kettle ordinary 500 watts Kettle automatic1000 watts	1+1	27.	Water Meter Single phase1KW-220V	1
11.	Heat Convector 220 volts1000 watts	1+1	28.	Single Phase energy meter (K.W.H.)5-10Amp.220V	1
12.	Voltage stabilizer– 1.Automatic Single phase transformer step up Single phase transformer step down 2.Three phase transformer step up Three phase transformer step down	2 each	27.	Three phase energy meter (3phase 4wire) 10-20Amp. 440V	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	1	34.	Double Element Hot Plate	1

	pole motor				
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

E. Physical Facilities :

The institution should have the facilities for Drinking water, bathrooms & toilets.

F. Library :

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

G. Batch Size :

Maximum 25 students in one batch. An institution can run maximum 4 batches for this course.