

STANDARD LIST

FIELD TECNICIAN – AIR CONDITIONER

SECTOR: ELECTRONICS

SUB-SECTOR:

REFERENCE ID: ELE/Q3102



State Council of Educational Research and Training(SCERT)

Vidyabhavan, Poojappura, Thiruvananthapuram - 695 012

www.scert.kerala.gov.in

This list of equipment, tool, furniture & consumables are prepared for a batch of 30 students

Part A - EQUIPMENTS			
SL NO	NAME	SPECIFICATION	QUANTITY
1	Drill machine	Portable	2 Nos
2	Pipe Bender	Mini Liver Type	1
3	Acetalene Cylinder	General	1
4	Weight scale digital	0 – 5 kg	1
5	Cathode Ray Oscilloscope (CRO)	30 MHz	1
6	Fire Extinguisher	5 kg	1
7	Vaccum pump	50 L	2 Nos
8	Oxygen Cylinder	General	1
9	Leak Detector- Digital	General	1
10	Manifold Gauge	General	2
11	Compound Gauge	General	1
12	Ohm,s Law Kit		2
13	Kirchoff's Law kit		1
14	Ac Motor	0.5HP	1
15	Regulated power supply kit	12 v	1
16	Compressor AC Rotary	Second hand	1
17	Condenser	old	
18	Window air conditioner	1 Ton used	1
19	Split air conditioner	Inverter Type	1No
20	Split ac	Used	2 Nos
21	Sling Psychrometer	General	3Nos
22	Hygrometer	Temp -10 to 50,Humidity 20% to	
23	Air blower	650 W	1
24	Hand Drill with hammer	750 W	1

Part C - TOOLS and ACCESSORIES			
SL NO	NAME	SPECIFICATION	QUANTITY
1	Phase tester	General	10Nos
2	Screw driver set	6" to 12"	10Nos
3	Nut driver set	30 mm to 120 mm	6Nos
4	Combination plier	8"	6Nos
5	Spanner set	6" to 32"	6Nos
6	Bread Board	No	4Nos
7	Galvanometer	No	1
8	Flaring tool	set	6Nos
9	Tube bender Spring Type	5/8",3/8",1/2"	2Nos

10	Tube cutter	½ inch	6Nos
11	Wire gauge	General	1
12	Measuring tape	10 m	2Nos
13	Hack saw	General	3Nos
14	Hammer Ball peen	250 gm, 500gm	2Nos each
15	Scissor	General	3Nos
16	De -burring Tool	Set of 5	1
17	Flat file	10"	5Nos
18	Round file	10"	5Nos
19	Allen wrench	Set	1
20	Adjustable wrench	17 inch	1
21	Brazing tool	Double nozle	2Nos
22	Multimeter- Digital	General	3Nos
23	Clamp – meter- Digital	General	3Nos
24	Pressure Gauge	0-100psi	1
25	Brazing torch with regulator	Brass	1
26	Personnel protective equipment	Gloves,Face Shield, Safety Shoe with Steel Toe cap	3 Nos
27	Temperature meter	Digital	4Nos
28	Cable Connector	general	30Nos
29	Continuity Tester	Neon Tester	2
30	Cutting plier	8.5 "	3Nos
31	Swaging tool set	Set 1/8 " to ¾ n"	2
32	Charging Line	General	6 Set
33	Relay PTC	For Ac	2Nos
34	Relay.LMS	For Ac	2Nos
35	Box type Relay	For Ac	2Nos
36	De soldering tool	General	1
37	Hand gloves	General	2 Nos
38	Welding Helmet	General	2 Nos
39	Safety belt	General	1
40	Eye goggles	General	2 Nos
41	Thermometer Digital	O – 100 degree centigrade	1
42	Wire stripper	General	3Nos

43	Spirit level	General	2
44	Pinching tool	Flare Type	2
45	Flaring Tool	For Ac	2
46	Nail remover-Hammer	0.5 kg	2
47	Steel rule	30 cm	3Nos
48	Extension boards	General	
49	Starting Capacitor	For 1 ton ac	
50	Drill Bit	8 to 16	1
51	Concrete Bit	1/4", 1/2", 3/4"	2Each
52	Voltmeter AC Digital	60-500 V	1
53	Voltmeter DC-Digital	0-100 V	1
54	Ammeter AC- Digital	0- 20 A	1
55	Ammeter DC-Digital	0- 5 A	1
56	Watt meter	0 – 2 kw	1
57	Variable Power Supply	0 -15 v	1

Part D - CONSUMEBLES

SL NO	NAME	SPECIFICATION	QUANTITY (per batch)
1	Electronic Component Kit		6Nos
2	Refrigerant R22,R32,R410,R600a,R134a,R290	Cylinder	1 No. Each
3	Capillary tube	Roll	Roll
4	Insulation tape For AC Piping	Roll	3
5	Brazing rod	packet	Roll
6	Copper Tube 1/4"	Feet	50 Feet
7	Flare nut 1/4"	1/4 "	10 Nos
8	Electrical tape	No	4Nos
9	Soldering kit	No	10Nos
10	Nylon plug	Box	1
11	Screw 1"	Box	1
13	First aid kit	No	1

Part E - OTHER ACCESSORIES

SL NO	NAME	SPECIFICATION	QUANTITY
1	Step Ladder	6 feet	1
2	Plastic Rope	10m	1

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