

REFRIGERATION & AIR CONDITIONING TECHNICIAN (709-710)

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 & ceiling fans. The workshop should have the following Tool/Equipments/Apparatus or material for Practical Training:

List Of Tools And Equipment

Sl. No	Tools	Qty.	Sl. no	Tools	Qty.
1.	Flaring tool set	3		Equipment	
2.	Tube cutter	3	18.	Water purifiers	01
3.	Swaging tool set	3	19.	File Flat, Round, Half Round 200mm	2 each
4.	Gasket punch set	2	20.	Flat --- 200mm	2
5.	Pines Off Tool	2	21.	Steel Rule	1
6.	Tube bender-spring type-mechanical type	3	22.	Steel Tape 5 meter	1
7.	Cylinder Valve key	2	23.	Hammer Ball Pane JK	2
8.	Pinching Pliers	5 each	24.	Combination Plier 200mm	5
9.	Amp meter 0-5 amps & Amp meter 0-30 amps	2+2	25.	Screw Driver Feat Tip, 150,200,250	2 each
10.	Thermometer F & C	2 each	26.	Screw Driver Philips	2nos.
11.	Vacuum pump	1	27.	Caliper, O/S & 1/S	1 each
12.	Gas charging line	2	28.	Long nose plier 150	2
13.	Pressure gauge & Compound gauge	2	29.	Centre Punch 200mm	1
14.	Multi meters digital	01	30.	Shanner Set, Box & Flat Endeel	2 each
15.	Gas cylinder F-12-2kg & F-22-2kg capacity, R-134A-1 Hydro Carbon	01 each	31.	Line tester	5
16.	Air Blower	01	32.	Scirov 150mm	1
17.	Dry Nitrogen cylinder	01	33.	Pully Puller 200mm	1

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34.	Voltage stabilizer -4 KVA Gas charging & evacuation Unit -1 Voltage stabilizer (desirable inverter/generator) 1KVA - 1 Clamp meter (Tong tester) for current detection -1	1 each	41	Rhychling Phychor Meter with chart	1
35.	Soldering Iron 50 & 20	1 each	42.	Feeler gauze	1
36.	Open type Compressor Reciprocating	02	43.	Pipe wrench 200	1
37.	Sealed type Compressor Reciprocating	02	44.	Adjustable wrench 200	1
38.	Old Refrigerator for demonstration/ Practical	02	45.	Blow lamp 1 or 2 pint	1
39	Old Window type air conditioner for demonstration/Practical	02	46.	LPG cylinder with torch and regulator	1 set
40.	Old water cooler for demonstration/ practical	02	47.	Fire extinguisher	

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

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

E. Faculty & Supporting Staff:

Faculty & Supporting Staff	Educational/Professional Qualification	No.
Coordinator	Degree/Diploma in appropriate branch with 5 years experience	01
Instructor	Diploma in Mechanical Engineering or ITI Certificate in Air Conditioning trade with 2 yrs. experience	01
Receptionist cum clerk	Graduation and must have computer background	01

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

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

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