

## REFRIGERATION & AIR CONDITIONING TECHNICIAN (709/710)

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

**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 sealing fans.

**Workshop :** The workshop size for 20 students should be at least 25ft. x 20 ft. with adequate lighting and exhaust & sealing Fans. The workshop should have the following Tool/Equipments/Apparatus or material for Practical Training:

### List of tools and equipment

Sl. no	Tools	Quantity	Sl. no	Tools	Quantity
1.	Flaring tool set	3		<b>Equipment</b>	
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.	Zong noze pteer 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

34.	<b>Voltage stabilizer -4 KVA</b> 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	

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

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

**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 must have computer background	01

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

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