GENERAL INFORMATION FOR REPAIR AND MAINTENANCE OF REFRIGERATOR

Name of sector	Refrigeration & Air Conditioning	
Name of Module	REPAIR AND MAINTENANCE OF	
	REFRIGERATOR	
MES Code	REF703	
Competency as per N C O Code		
Duration of Course	500 Hrs	
Entry qualification of trainee	VIII Std	
Unit size (No of trainees)	20	
Power norms	02KW	
	60 sq.m	
Space Norms (Workshop and Class	(Minimum size of one side to be 04 m)	
room)	,	
Instructors Qualification	Degree in Mechanical Engineering	
	with one year Experience	
	OR	
	Diploma in Mechanical Engineering	
	with two year Experience	
	OR	
	NTC/ NAC in	
	RAC Trade with three years of	
	Experience	
Desirable	CITC	

COURSE CONTENT FOR REPAIR AND MAINTENANCE OF REFRIGERATOR

Under pinning Knowledge (Theory)	Practical Competencies	
 Safety Precautions, study the function and working of refrigeration tools, 	 Familiarization of refrigeration tools, Instruments & Equipments. 	
Instruments & Equipments.		

- Study the construction and working of V.C. Cycle of refrigerator.
- Study the current, voltage, resistance measuring.
- Study the open circuit, short circuit and earth testing.
- Study the different types of motors used in refrigerator.
- Study the different types of relays, OLP, thermostat, heaters, fan, timer used in refrigerator.
- Study compressor, condenser, capillary tube, drier, and evaporator.
- Refrigerant used in refrigerator
- Study the trouble shooting in refrigerator.
- Study the types of refrigerator.
- Study the specification of refrigerator
- Faults and remedies of refrigerator.
- Care and maintenance of refrigerator.

- Tube cutting, bending, flaring, swaging, brazing, welding.
- Measuring Current, voltage and resistance.
- Check open circuit, short circuit and earth of hermetic compressor.
- Identify starting , running, common terminal
- Check relay, OLP, thermostat, door switch, refrigerator Bulb.
- Check the wiring circuit of refrigerator.
- Check the efficiency of hermetic compressor.
- Dismantle and Assemble hermetic Compressor.
- Identify the trouble and rectification
- De scaling refrigerator condenser.
- Flushing Condenser and Evaporator.
- Leak Testing, Evacuation, Gas Charging In Refrigerator.
- Servicing the refrigerator.
- Check the performance of refrigerator.
- Installation of Refrigerator.

LIST OF TOOLS, INSTRUMENTS, EQUIPMENTS AND FURNITURE

1,	File	5 no's
2,	Hammer	5 no's
3,	screw driver	5 no's
4,	Combination pliers	5 no's
5,	Line tester	5 no's
6,	Soldering Iron	5 no's
7,	Bench vice	2 no's
8,	Hack saw	5 no's
9,	Pipe wrench	5 no's
10	Snip	5 no's
12,	Tube cutter	5 no's

Tube Bender	5 no's
	5 no's
	5 no's
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	2 no's
	2 no's
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Steel Locker	2 no's
Work Table	2 no's