

SYLLABUS – PRACTICAL

1. Tools introduction
2. Identify of Pipes; copper, Aluminum & Iron tubes
3. Tube cutting, Switching & flaring
4. Tube bending
5. Pinching
6. Brazing (Straight joint)
7. Copper Brazing & silver welding & All type of Welding
8. Condenser
9. Expansion device –(6 Types & Difference)
10. Evaporator – Basic 2 Type and its Types
11. Complete cycle assembling & Gas charging
12. Variable Pressure & temperature testing
13. Air conditioners service
14. Air conditioners Gas charging
15. Water cooler testing
16. Bottle cooler testing
17. Packaged unit
18. Central Plant
19. Humidifying & Dehumidifying
20. Variable temperature & Auto control
21. Pump down gas from the systems
22. Thermometers & uses
23. Measuring pressures and pressure gauge, Compound gauge, Monometer,
Boro meter
24. Insulation
25. Heater
26. Ice refrigeration systems
27. Water refrigeration

28. Actual refrigeration cycle and its Components
29. Study of complete refrigeration cycle
30. Components & function
31. Parts of compressor & study
32. Dismantling and assembling of compressor
33. Study of shaft seal
34. Seal leak & Arrest it
35. Service valves
36. Crank shaft
37. Piston & pins
38. Checking of own out parts
39. Lapping Patrice
40. Study of compressor (Suction, discharge) values
41. Gasket & cutting (Compressor gas cut, Door gas cut)
42. Assembling reciprocations compressor
43. Assembling Rotary compressor
44. Hermetic, semi sealed & open type compressor
45. Make a electrical strait & T joints
46. Connecting electrical circuits
47. Fix the electrical Accessories
48. Checking the compressor efficiency – (Pressure & CSR Testing)
49. Evaporator type
50. Condenser type
51. Leak testing, Pressure sting vacuumizing.
52. Service of evaporator and condenser
53. Study Parts of frier and strainer
54. Replacement and assembling of capillary tube
55. Handling gas cylinder
56. Type of gas
57. Oil and gas changing systems (Purging)
58. Reclimate the refrigerant from the system
59. Study of Automatic expansion valve
60. Study of thermostatic expansion valve
61. Study of internal and external thermostatic expansion A.S. & L.S Floct
62. Uses of gas and manifold

63. Trouble shooting
64. Study of lubricant
65. Study of electrical motor and types (PSC & CSR circuits)
66. Study of relay, O.L.P., H.P L.P cutout
67. Study of Oil Pumps
68. Solenoid valve
69. Cooling tower
70. Study of defrosting methods (Electrical, Manual)
71. Study of Cold Storage and maintenances
72. Wring – Refrigerator, Air-conditioned, Water Cooler, Deep Freezer, Bottle Cooler, Packaged unit, central Plants, etc.
73. Cascade refrigeration
74. Absorb son refrigeration
75. Double & Multi stage systems