

DIPLOMA IN REFRIGERATION & AIR CONDITIONING ENGINEERING

SYLLABUS

ELECTRICITY

1. FUNDAMENTAL OF ELECTRICITY TYPES
2. CIRCUIT
3. CURRENT
4. TRANSFORMER
5. MOTORS
6. METERS
7. CAPACITOR
 - STARTING CAPACITOR
 - RUNNING CAPACITOR
8. RESISTANCE
9. MOTOR TYPE
 - SIGNAL PHASE
 - THREE PHASE
10. RELAY TYPE
11. RELAY CHECKING
12. ELECTRIC MOTOR
 - A.C MOTOR
 - D.C MOTOR
13. WINDING
14. TERMINAL CHECKING
15. OHMS LAW

FUNDAMENDAL OF REFRIGERATION & AIR CONDITION

16. WHAT IS REFRIGERATION?
17. WHAT IS HEAT
18. TYPES OF HEAT
19. HEAT TRANSMISSION METHOD EXPLAIN
20. PRESSURE
21. PRESSURE UNIT
22. TON OF REFRIGERATION?
23. METHOD OF REFRIGERATION
24. VCS SYSTEM
25. VAS SYSTEM
26. REFRIGERANT
27. TYPES OF REFRIGERANT
28. REFRIGERANT CHEMICAL NAME & CHEMICAL FORMULA

29. ALTERNATIVE REFRIGERANT
30. METHOD OF REFRIGERANT RECOVERY
31. METHOD OF LEAK TESTING
32. OIL TYPES
33. LUBRICATION SYSTEM
34. DESIRABLE PROPERTIES OF LUBRICATION OIL
35. TYPES OF COMPRESSOR
36. TYPES OF CONDENSER
37. TYPES OF EVAPORATOR
38. TYPES OF THROTTLING DEVICE
39. TYPES OF COOLING TOWER
40. NRE – NET REFRIGERANT EFFECT R22
41. REFRIGERATOR
42. ELECTRICAL PARTS OF REFRIGERATOR
43. SINGLE DOOR REFRIGERATOR WIRING DIAGRAM
44. DOUBLE DOOR REFRIGERATOR WIRING DIAGRAM
45. AIR CONDITIONER
46. INSTALLATION OF WINDOW AIR CONDITIONER
47. SPLIT AIR CONDITIONER
48. AIR CIRCULATION
49. TROUBLE SHOOTING OF AIR CONDITIONER
50. SERVICE IN THE SPLIT AIR CONDITIONER
51. CAR A/C WIRING AND PRACTICAL EXPLAIN
52. THERMAL CONTROL SWITCH
53. RECEIVER
54. DEEP FREEZER
55. DUCT
56. PACKAGE A/C
57. AIR COOLER
58. CENTRAL PLANT A/C
59. CENTRAL PLANT CHILLER SYSTEM
60. TRANSPORT A/C
61. VACUUM
62. REFRIGERANT (GAS) CHARGING
63. REFRIGERATION EQUIPMENTS
64. SAFETY DEVICES
65. BLUE STAR
66. COMPRESSOR WORKING TYPE
67. HVAC TOOLS
68. HVAC MAINTENANCE
69. METER TYPES

COMMERCIAL & TRANSPORT PURPOSE

- 70. PURPOSE OF AIR CONDITION**
- 71. BLUE STAR CHILLER CAREER CHILLER**
- 72. AUTOMOBILE AIR CONDITION**
- 73. REFRIGERATED VEHICLES**
- 74. COLD STORAGE AIR CONDITIONER**
- 75. CSCR METHOD WRING OF WINDOW A/C**
- 76. PSC METHOD OF SPLIT A/C WRING**