

DIPLOMA OF REFRIGERATION AND AIR CONDITIONING

The main aim of the Refrigeration and Air Condition Diploma is to prepare a cadre of Refrigeration and Air Condition Mechanic who are competent in adapting a body of knowledge in meeting the requirements and best practices in industries.

The following are the primary objectives of the Refrigeration and Air Condition Mechanic Program:

- Exercise good judgment and resourcefulness in construction, maintenance and workplace health and safety.
- Have a thorough knowledge of the principle components of refrigeration systems, heat/cool units and Air Condition electrical and automatic controls used in all aspects of the refrigeration and Air Condition industry.
- Be capable of assembling, installing or overhauling all components and be proficient in the use of test instruments.
- Know, and be able to apply their knowledge of the installation, and service of HVAC systems in accordance with standards for the industry

Program	Diploma of Refrigeration and Air Conditioning		
Credit Hours	72 Credits		
Duration	Academic Year (9 Months)		
Subject		Credit Hours	Code
English Language 101		3	EN101
English Language 102		3	EN102
Introduction: Refrigeration and Air Conditioning and Safety		3	RAC01
Fitting & Welding		3	RAC02
Primary & secondary refrigerants		3	RAC03
Thermal insulation		3	RAC04
Gas Charging, Testing & Faults Diagnosis		3	RAC05
Industrial Visit		6	RAC06
Observation, Analysis of Carnot cycle		3	RAC07
Electronic Controls, Transistors		3	RAC08
Commercial Compressor & Capacity Control		3	RAC09
Cooling Tower		3	RAC10
Water Softening Plants, Chillers		3	RAC11
Refrigerant controls		3	RAC12
Erection of plants, Ducts, HVAC, VAV system		6	RAC13
Psychrometry, Heat load estimation		3	RAC14
Practical Training		18	RAC15