

COURSE TITLE	REFRIGERATION AND AIR-CONDITIONING (CITY AND GUILDS 3528-05 AND 3529-05)
COURSE AIM	This course will help the trainee to obtain a basic knowledge of the refrigeration and air-conditioning systems. It covers basic faultfinding and maintenance of plants and systems.
COURSE CONTENTS	<ol style="list-style-type: none"> 1. Health and safety procedures related to the industrial environment 2. Identification and handling of various types of hand tools and equipment used in repair and installation of refrigeration systems 3. Basic brazing and soldering 4. Principles of refrigeration and air-conditioning systems 5. Basic electricity in refrigeration and air-conditioning systems 6. Assembling refrigeration and air-conditioning systems 7. Gases used and charging of systems 8. Diagnosing leaks and faults in systems 9. Maintenance of refrigeration and air-conditioning systems 10. Testing of refrigeration and air-conditioning systems 11. Recovery and recycling of Refrigerants 12. Basic Electronics:- resistance colour code and tolerance; capacitors type series and parallel; series and parallel resistors, current and voltage; circuit symbols, soldering and constructing a simple circuit; and revision and test.
DURATION	180 hours
SCHEDULE	Five times a week, mornings or evenings.
VENUE	At the ETC Training Complex in Hal Far.
ELIGIBILITY	Persons who are 16 years and have to be both literate and numerate.
FEE	Nil
CERTIFICATION	Certificate of Achievement issued by ETC.

