

F-Gas Cat 1 (City & Guilds 2079-11)

Duration	5 days
Target group	Technicians handling refrigerants, requiring knowledge of vapour compression cycles, safe refrigerant handling, system components, and environmental impact.
Prerequisites	There are no prerequisites for this course.
Objective	<ul style="list-style-type: none">• Compliance with legislation and better records keeping.
Contents	<ul style="list-style-type: none">• Requirements of statutory regulation/legislation.• The theory and thermodynamics of vapour compression cycles and refrigerants.• To identify the hazards and safe working practices for refrigerant handling (and relate to causes and effects of global warming and climate change).• To identify stationary refrigerants, air conditioning and heat pump system components, functions and leakage risks.• To fabricate and examine pipe work, and undertake pressure testing, evacuation, charging, recovery and record keeping.
Exam	Learners complete practical exercises to charge and recover gasses from a refrigeration system. You will fabricate elements of pipe work and test their integrity. Assessment is by completion of an observed practical exercises and computer based tests.