

# Level 2 Award in F-Gas and ODs Regulations (2079)

**Equipment requirements:  
Information for centres prior to approval**



Centres seeking approval for the delivery must provide the following equipment and consumable materials to enable candidates to be assessed on an individual basis, ie one candidate per testing station.

**Testing Station:**

- condensing unit or compressor and condenser complete with **both** high and low pressure backseating service valves
- HP liquid receiver, minimum capacity 3.5 litres for Cat I, less than 3.5 litres for Cat II
- liquid line filter drier
- moisture indicating sight glass
- externally equalized Thermostatic expansion valve
- DX evaporator
- LP and HP cut out switches
- additional Schraeder valve connection in suction line
- provision in suction line for candidates brazed test piece to be installed (10.01)
- additional compressor body complete with oil
- waste oil reservoir/tank (5.04)
- F gas log book

**Strength and Tightness Testing:**

- oxygen free nitrogen cylinder and trolley
- appropriate regulator
- high pressure gauge and pressure test set
- leak detection fluid
- surface temperature probe
- appropriate personal protective equipment (PPE)

**Evacuation and Dehydration:**

- vacuum pump
- vacuum gauge to record less than 2 Torr, 2000 microns/2.7 mb/270 Pa

**Charging, Direct and Indirect Leak Checking:**

- appropriate gauge manifold set
- air temperature probe
- refrigerant comparator
- electronic leak detector
- scales
- appropriate personal protective equipment (PPE)
- refrigerant cylinder R404A or other zeotropic HFC blend

**Recovery**

- recovery machine and hoses
- recovery cylinder

**Brazed Test Piece**

- MAPP gas or Oxy-acetylene equipment with suitable brazing handle and nozzles
- Refrigeration grade copper tube of test rig suction line size.
- Suitable tool(s) for swaging the copper tube.
- PPE specific to a brazing task

## Test rig specification

## Refrigeration Circuit

