

## End-Point Assessment Declaration Form

This form must be completed by centres / EPA customers who wish to complete the EPA at their centre/site

<b>Centre / EPA customer name</b>		<b>Centre number</b>	1234567
-----------------------------------	--	----------------------	---------

<b>Please indicate which EPA you are intending on running:</b>		✓

**I confirm that our centre/EPA customer meet both the venue & equipment requirements to support end-point assessment for the above occupations**

<b>Name</b>	Name		
<b>Job role</b>	Job role		
<b>Signature</b>	Signature	<b>Date</b>	DD/MM/YY

**If any parts of or all of the assessment is taking place at a different location(s)/venue(s) to your centre/epa customer address please list the details below**

<b>Venue 1</b>			
<b>Name</b>	Name		
<b>Address</b>	Assessment location		

<b>Venue 2</b>			
<b>Name</b>	Name		
<b>Address</b>	Assessment location		

## Remote Assessment

The following assessment can be conducted remotely

- Professional interview

**I can confirm that as a centre/EPA customer we have all the required equipment to offer the following assessment methods remotely in line with the guidance outlined in the Manual for the End-point Assessment Service**

Assessment method	Tick to confirm remote assessment
Professional interview	

## End assessments

The focus of the end-point assessment is for the apprentice to fully demonstrate the values, knowledge, skills and behaviours set out in the apprenticeship standard and to be able to demonstrate this level of professional competence in authentic workplace contexts.

End-point assessments are formal summative assessments that conclude an apprenticeship programme. Each apprenticeship will be assessed in a number of ways to provide a clear indication of the apprentice's knowledge and skills. For this apprenticeship the following assessment methods need to be achieved:

- knowledge and understanding tasks
- practical tasks
- oral assessments - professional discussions / vivas / interviews.

## End-point Assessment Resources list

### Resource required

#### Refrigerants

At the beginning of the retrofit task, the venue must ensure that the system contains an existing high GWP refrigerant that will be recovered by the apprentice. A list of examples are given in the table below.

EPA venues must provide 4 alternative refrigerants for apprentices to select from. There must be 4 refrigerants available from a number of classifications/categories given below. It is expected that venues would provide refrigerants that range from at least three different classifications.

This is not a definitive list and venues may identify suitable alternatives provided they are comparable to the examples given and are classified and categorised in the same way.

Refrigerant Categories	Example Refrigerant	GWP	Classification
<b>Existing High GWP</b>	R134a	1430	A1
	R404A	3922	A1
	R407F	1825	A1
	R410a	2088	A1
<b>Hydrocarbon (HC)</b>	R600a	3	A3
<b>Hydrofluorocarbon (HFC)</b>	R32	675	A2L
	R454A	246	A2L
<b>Hydrofluorocarbon (HFC)</b>	R513A	631	A1
	R448A	1387	
	R449A	1397	
<b>Hydrofluoro-olefin (HFO)</b>	R1234yf	4	A2L

EPA venues must also provide the Manufacturer's Information for the refrigerants available including; the Ph charts and thermodynamic data.

#### Space

A two chamber cold room that allows different temperature requirements to be set in each room. Each chamber must have the minimum dimensions of 6m<sup>3</sup>

The cold-room must be of a size that allows for the IEPA to directly observe the apprentice at work comfortably (i.e. able to stand within the cold room without being intrusive). This sizing is recommended to ensure the assessment replicates a real working environment and allows the system to work at full capacity.

One chamber should be set to -18°C and the other +4°C.

### **System Requirements**

The system must contain as a minimum;

- 1 high pressure condensing unit
- 2 evaporators (one with electric defrost, one needs an electronic expansion valve the other needs a thermostatic expansion valve)
- evaporator pressure regulator
- single semi hermetic compressor with crank case heater
- oil separator
- control panel (including electronic thermostat/temperature control PLC)
- suction line accumulator
- mechanical safety (HP/LP switch)
- 2 liquid line solenoid valves
- brazed liquid line drier and sight glasses
- high side pressure relief valves

### **Permitted Materials**

Apprentices must have access to the following documentation during the assessment:

- Electrical diagrams
- F Gas Log books
- Equipment manuals (if relevant)
- Manufacturer's information for the refrigerants available including; the Pressure Enthalpy (P-H) charts and thermodynamic data.
- Templates given within the Venue EPA Pack.

### **Equipment**

- recovery machine and hoses
- suitable recovery cylinder(s)
- appropriate gauge manifold set
- air temperature probe
- refrigerant comparator
- electronic leak detector
- scales
- suitable PPE
- surface temperature probe
- high pressure gauge and pressure test set
- leak detection fluid
- appropriate regulator (nitrogen)
- vacuum pump
- vacuum gauge (to record less than 2 Torr, 2000 microns/2.7 mb/270 Pa)
- oxygen free nitrogen cylinder and trolley
- voltage tester
- multi-meter
- electrical insulation tester
- capacitor tester
- electrical lock off kit – padlock, signage etc.

RACHP Resource List  
V3 February 2019

- ratchet Key
- thermometer
- torque wrench
- hand tools
- leak detection fluid

Appendix 1 Version Control Table

Version	Detail of Change
V3 February 2019	Minimum size of cold rooms reduced from 8m <sup>3</sup> to 6m <sup>3</sup> . Additional guidance added.