



**ACS.HTR1  
SAFETY ASSESSMENT CRITERIA  
INITIAL.DOMESTIC  
NATURAL GAS & LPG  
GAS FIRES AND WALL HEATERS**

**Introduction**

Tests gas safety competence to install, exchange, commission, disconnect, service, repair and break down domestic open, balanced fan assisted flued gas fires, wall heaters, convector heaters, stoves and flueless gas fires with and without catalytic converters.

CBs may adopt Competence and Criteria numbering different to that used in this document.

CB documentation may adopt wording for criteria different to that used in this document, provided the meaning is unaffected.

**Appliance range**

Open flue gas fire (radiant/convector), open flue ILFE fires, open flue DFE fires, convector heaters and stoves, balanced flue gas fires and balanced fan assisted wall heater and flueless gas fires with and without catalytic converters.

**Pre-requisites**

CCN1 (taken since April 2012) OR equivalent change over elements  
or  
QCF or S/NVQ.

**Exclusions**

Fire surrounds, hearths, construction work with masonry or bricks on chimneys, penetrating structures for flues and electricity.

**References and normative documents**

Appliance MIs.

All relevant documents as listed in the Legislative, Normative & Informative Document List (LINDL), Inc.:

- HSL56
- BS 5871-1, 2, 3 and 4
- BS 5440-1
- BS 7967
- GIUSP.

ACS.SMB.003.ACDND identifies Normative Documents that should be held by ACs.

**Abbreviations**

AC. Assessment Centre  
DFE. Decorative fuel effect  
FSD. Flame supervision device  
I. Initial  
ILFE. Inset live fuel effect  
MIs. Manufacturer's/manufacturers' instructions  
OP. Operating pressure  
Ref. Reference.

| <b>PERFORMANCE CRITERIA</b>          |   | <b>REF</b> | <b>I</b> |
|--------------------------------------|---|------------|----------|
| 1.                                   | check fire place opening and hearth construction and dimensions conform to requirements   |            | ✓        |
| 2.                                   | check chimney/flue is complete throughout its length and is correctly terminated  |            | ✓        |
| 3.                                   | use smoke test to confirm that flue discharges correctly only to atmosphere   |            | ✓        |
| 4.                                   | check catchment area conforms to requirements   |            | ✓        |
| 5.                                   | check appliance is complete and fit for use and purpose   |            | ✓        |
| 6.                                   | isolate gas supply prior to work  |            | ✓        |
| 7.                                   | install flue spigot restrictor, if required   |            | ✓        |
| 8.                                   | seal fire to surround/wall (inset)  |            | ✓        |
| 9.                                   | fit closure plate and seal to fireplace opening (radiant convector)   |            | ✓        |
| 10.                                  | connect appliance to gas supply and/or chimney  |            | ✓        |
| 11.                                  | re-establish gas supply   |            | ✓        |
| 12.                                  | check work carried out is gas tight   |            | ✓        |
| 13.                                  | ensure appliance is correctly located, level and stable   |            | ✓        |
| 14.                                  | position coal/log effect fuel correctly   |            | ✓        |
| 15.                                  | position radiant element correctly  |            | ✓        |
| 16.                                  | dismantle and/or clean appliance operational gas safety components, using appropriate cleaning methods and agents (e.g. burners, injectors, primary air ports, combustion chambers, ignition devices, taps, FSDs and fuel effects where appropriate). |            | ✓        |
| 17.                                  | <b>commission appliance:</b>  |            |          |
| (i)                                  | purge of air  |            | ✓        |
| (ii)                                 | check OP/gas rate at appliance  |            | ✓        |
| (iii)                                | check burners flame pictures, stability and ignition  |            | ✓        |
| (iv)                                 | check user controls are operating correctly   |            | ✓        |
| (v)                                  | check safety control devices, inc. oxygen depletion devices, are operating correctly to MIs   |            | ✓        |
| (vi)                                 | carry out spillage test   |            | ✓        |
| (vii)                                | measure combustion performance on flueless gas fire to MIs or BS 7967-2   |            | ✓        |
| (viii)                               | interpret combustion performance test readings  |            | ✓        |
| 18.                                  | identify defects on gas safety components   |            | ✓        |
| 19.                                  | explain safe operation and use of appliance   |            | ✓        |
| <b>KNOWLEDGE &amp; UNDERSTANDING</b> |   | <b>REF</b> | <b>I</b> |
| 1.                                   | identifying unsafe conditions   |            | ✓        |
| 2.                                   | diagnosing gas safety faults  |            | ✓        |
| 3.                                   | suitable and unsuitable appliance room/space locations  |            | ✓        |
| 4.                                   | ventilation location for DFEs and flueless gas fires  |            | ✓        |
| 5.                                   | minimum flue sizes for ILFEs  |            | ✓        |
| 6.                                   | installation of metal flue systems and flue boxes for gas fires   |            | ✓        |
| 7.                                   | direct flue connection appliances   |            | ✓        |
| 8.                                   | types and installation of heating stoves  |            | ✓        |
| 9.                                   | electrical gas safety control devices for fanned draught gas fires  |            | ✓        |
| 10.                                  | canopy requirements for decorative gas fires  |            | ✓        |
| 11.                                  | fire protection, inc. user and floors   |            | ✓        |
| 12.                                  | advice to user, inc. operation and maintenance  |            | ✓        |
| 13.                                  | fitting appliances in raised builders openings  |            | ✓        |
| 14.                                  | advice to user for fitting independent CO alarms  |            | ✓        |
| 15.                                  | effects of fitting a flueless gas fire into an opening under an existing flue; in front of a fireplace opening; close to an existing flue or close to an air vent   |            | ✓        |
| 16.                                  | commissioning flueless appliances   |            | ✓        |
| 17.                                  | maintenance and safety checks for flueless space heaters  |            | ✓        |
| 18.                                  | <b>fitting a flue kit:</b>  |            |          |
| (i)                                  | direct flue connection fires when fitting kit to an unlined chimney   |            | ✓        |
| (ii)                                 | min. flue/chimney dimensions  |            | ✓        |
| (iii)                                | calculating debris catchment void   |            | ✓        |
| (iv)                                 | labelling   |            | ✓        |
| 19.                                  | flueless gas fires installed in front of redundant solid fuel back boilers  |            | ✓        |