



**ACS.DFDA1
SAFETY ASSESSMENT CRITERIA
INITIAL.DOMESTIC
NATURAL GAS & LPG
FORCED DRAUGHT GAS BURNERS**

DFDA 1**INITIAL****Introduction**

Tests gas safety competence to install, exchange, commission, disconnect, service, repair, break down and convert gas fired appliances, fitted or to be fitted with forced draught gas burners of heat input ≤ 70 kW net heat input in domestic dwellings.

This assessment can also be used for appliances of net heat input > 70 kW installed in domestic dwellings to BS 6798 and BS 5440-1 and -2.

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

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

Appliance range

Gas fired boilers and range cooker/boilers fitted with forced draught burner bearing the CE mark, and gas safety aspects of approved conversion of an oil to gas boiler using a forced draught burner bearing the CE mark.

Pre-requisites

Suitable domestic appliances assessments +
CCN1 or
CoCDN1 or
CoLPNG1 or
QCF or S/NVQ.

Exclusions

Kitchen furniture, extract fans, electricity and building.

References and normative documents

Appliance MIs.

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

- HSL56
- BS 6798
- BS 5440-1 and 2
- BS 7967-1, 2, 3 and 4
- GIUSP
- BCEMA Agreed Codes of Practice for conversion of oil fired domestic boilers to burn gas, fitted with forced draught burners.

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

Abbreviations

AC. Assessment Centre

FSD. Flame supervision device

I. Initial

MIs. Manufacturer's/manufacturers' instructions

Ref. Reference.

PERFORMANCE CRITERIA		REF	I
1.	check appliance complete and fit for use and purpose		✓
2.	isolate gas supply prior to work		✓
3.	seal flue system to MIs (room served/closed flues)		✓
4.	fix burner to appliance and connect to gas supply		✓
5.	re-establish gas supply		✓
6.	check work carried out is gas tight		✓
7.	check burner is correctly located and sealed		✓
8.	dismantle and clean burner/appliance operational gas safety components, as required, using appropriate cleaning methods and agents (e.g. burners, air ports, baffles combustion chambers and flue bends, ignition devices, thermostats, fan switches, FSDs)		✓
9.	commission burner:		
(i)	check burner control cycle is correct		✓
(ii)	check pressure at inlet and burner head of appliance is correct		✓
(iii)	check burner flame stability and ignition are correct (if applicable, set initially to burner and, on completion, to boiler MIs)		✓
(iv)	take CO, CO ₂ and/or O ₂ readings to MIs – adjust as required		✓
(v)	check user controls are operating correctly		✓
(vi)	check safety control devices to MIs and operating correctly		✓
(vii)	check temperature controls are operating safely		✓
10.	check burner/appliance combustion gaskets/flue connections are sound and installed to MIs		✓
11.	identify defects on gas safety components		✓
12.	explain safe operation and use of burner to MIs		✓
KNOWLEDGE & UNDERSTANDING		REF	I
1.	identification of unsafe conditions		✓
2.	diagnosis of gas safety faults		✓
3.	effect of ineffective appliance/burner case seals/gaskets		✓
4.	installing gas forced draught burners onto approved oil boiler conversions		✓
5.	suitable and unsuitable appliance room/space locations		✓
6.	clearances – proximity of combustible materials – fire proofing		✓
7.	operation of mechanical and electrical controls		✓