



**ACS.CCCN1
SAFETY ASSESSMENT CRITERIA
INITIAL.NON-DOMESTIC
NATURAL GAS
CORE CATERING APPLIANCES**

**ACS. CCCN1
SAFETY ASSESSMENT CRITERIA
RE-ASSESSMENT (OF CCCN1)
NON-DOMESTIC. NATURAL GAS
+ COMCAT 1, 2, 3, 4, 5**

CCCN1	INITIAL & RE-ASSESSMENT
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Introduction

Tests gas safety competencies in core areas of gas work common to catering appliances.

This assessment covers dedicated catering establishments and also food technology areas in educational establishments.

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.

Comprises:

3. Products and characteristics of combustion
- 4/12. Ventilation and flueing (make-up and extract)
5. Installation of pipework and fittings
16. Re-assessment of appliances

Pre-requisites***Initial***

ND Core Generic Parts A and B.

Re-assessment

ND Core Generic Parts A & B + CCCN1 with, as appropriate, COMCAT 1/2/3/4/5.

Reference and normative documents

MIs.

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

- HSL56
- GIUSP
- BS 6173
- IGEN/UP/11 Edition 2
- BS7967-5
- IGEN/UP/19
- IGEN/IG/G2
- DW172
- BS 5440-2
- EH40

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

Abbreviations

AC. Assessment Centre
 CB. Certification Body
 FSD. Flame supervision device
 I. Initial
 MIs. Manufacturer's/manufacturers' instructions
 ND. Non-domestic
 R. Re-assessment
 Ref. Reference.

3. Products and characteristics of combustion

PERFORMANCE CRITERIA	REF	I	R
1. CO detectors and indicators			
(i) identify detectors and indicators		✓	✓
(ii) installation- locations		✓	✓
(iii) Identify suitable commissioning and maintenance of CO & CO² detectors for use in the workplace. (audible, readable, visual)		✓	✓
KNOWLEDGE & UNDERSTANDING	REF	I	R
1. ambient levels of CO ₂	EH40 2018	✓	✓
2. critical levels of CO ₂ that could cause vitiation affecting combustion process		✓	✓
3. types of portable combustion gas analysers		✓	✓
4. use of combustion analysers on checking appliance combustion performance		✓	✓
manufacturing Standards for electronic CO-detectors 5. Identify suitable commissioning and maintenance of CO & CO ² detectors for use in the workplace.	BS 6173	✓	✓

4/12. Ventilation and flueing (make-up and extract)

PERFORMANCE CRITERIA	REF	I	R
1. calculate free area of air vents and grilles		✓	✓
2. recognise adequate and inadequate ventilation (make-up air and extract)		✓	✓
3. recognise suitable/unsuitable overhead canopy extraction - air changes per hour	DW172 Section 6 & Table 2a	✓	✓
3a identify canopy 'rating plate'	BS 6173	✓	✓
4. carry out visual inspection of kitchen and assess performance of existing catering installation:			
(i) confirm interlock installation to UP19		✓	✓
(ii) confirm existing ventilation system (make-up and extract) operating correctly by carrying out an air quality test		✓	✓
(iii)			
(iv) set-up and apply suitable systems of work and written procedures		✓	✓
(v) identify correct and incorrect labels and notices		✓	✓
5. calculate ventilation for combustion , systems compliant to BS 5440 -2	BS5440-2	✓	✓
6. Calculate ventilation (make-up air and extract) on multi-appliance installations	DW172 Table 2a	✓	✓
7. Calculate additional ventilation for hoods, canopies, extractor fans etc. for systems compliant to BS 5440 -2	BS5440-2	✓	✓
8. check siting of ventilation (wall, window, floor, ceiling and ducted) direct to outside air; series air vents for systems compliant to BS 5440 -2	BS5440-2	✓	✓
9. identify restrictions to ventilation (make-up air) grille locations		✓	✓
10. identify correctly and incorrectly installed Type A and B appliances		✓	✓
11. identify types of ventilation (make -up air and extract) terminations, grilles and vents		✓	✓
12. identify unsafe ventilation installations e.g. fly screens (pest control)		✓	✓
KNOWLEDGE & UNDERSTANDING	REF	I	R
1. installing second hand appliances (FSD); upgrading gas controls or carrying out repairs on catering appliances not installed to BS 6173		✓	✓
2. installing complete new kitchen or mechanical ventilation system & type suitability	BS 6173 Section 11	✓	✓
3. extract system requirements when installing both Type A and B appliances in existing installations		✓	✓
3a Solid Fuel Appliance shall not share the same extract system with gas appliances	DW172 14.11 & 14.12	✓	✓
4. effects of cooking fumes on combustion		✓	✓
5. appliances with forced draught burners		✓	✓
6. adventitious air supplies		✓	✓

7.	reasons for adequate ventilation (make-up air and extract)		✓	✓
8.	access and maintenance for ventilation (extract) ductwork	DW172 3.3	✓	✓
9.	recognition of different ventilation (extract) systems (canopies, ventilated ceilings etc.)	DW172 2.1	✓	✓
10.	dealing with interlocks fitted with overrides	DW172 section 20	✓	✓
11.	recognition of when canopy performance tests are required		✓	✓
12.	identification and installation of intumescent air vents		✓	✓
13.	operation of passive stack ventilation		✓	✓
14.	ventilation for internal kitchens		✓	✓
15.	CO2 levels in atmosphere action levels for unsafe situations	DW172 3.14 & Appendix G EH40	✓	✓

5. Installation of pipework and fittings

KNOWLEDGE & UNDERSTANDING		REF	I	R
1.	emergency isolation valves		✓	
2.	automatic emergency isolation valves		✓	
3.	isolation valves for appliances		✓	
4.	pipe sizing to appliance requirements, inc. theoretical exercise		✓	
5.	sleeving for pipework		✓	
6.	types of hoses and flexible connections		✓	
7.	appliance restraining cables		✓	
8.	identification of defective installation pipework		✓	

16. Re-assessment of appliances

PERFORMANCE CRITERIA:	APPLIANCE TYPE			
	COMCAT 1 & 3	COMCAT 2	COMCAT 4	COMCAT 5
1. check appliance is complete, fit and suitable for use	*	*	*	*
2. check gas supply to appliance has been installed using appropriate materials and fittings, to appropriate standards	*	*	*	*
3. check appliance is level and stable (lock casters, if applicable)	*	*	*	*
4. check flue system has been installed with appropriate materials and fittings to appropriate standards			*	
5. check vents, grilles and ducts supplying ventilation to appliance are installed/positioned using appropriate materials and fittings to MIs	*	*	*	*
6. install appliance to MIs, current normative documents	*	*	*	*
7. commission appliance/equipment:				
(i) purge appliance/equipment of air	*	*	*	*
(ii) fill appliance to MIs		*	*	
(iii) light appliance to MIs	*	*	*	*
(iv) check OP and/or gas rate/heat input at appliance to MIs	*	*	*	*
(v) check flue/extract system safely removing products of combustion	*	*	*	*
(vi) check flue gas analysis readings are to MIs 1			*	*
(vii) check supply of combustion air is adequate	*	*	*	*
(viii) check flame picture, stability and ignition are correct	*	*	*	*
(ix) inspect and test appliance operational gas safety components e.g. burners, injectors, primary air ports, filters, heat exchanger and flue-ways, ignition devices, FSD, thermostats, interlocks, pressure switches/thermostats, taps, regulators and any other gas safety components (where appropriate) for correct operation to MIs. <i>N.B. High limit and pressure stats may be assessed by K&U</i>	*	*	*	*
(x) check steam pressure controls are operating correctly		*		
(xi) identify gas safety faults on components (specific to appliance)	*	*	*	*
(xii) check appliance is working correctly/safely as intended	*	*	*	*
(xiii) check users controls are operating correctly	*	*	*	*
8. explain safe operation of appliance/equipment	*	*	*	*
KNOWLEDGE & UNDERSTANDING				
1. installing second hand appliances with enclosed burners	*	*	*	*
2. upgrading safety controls on second hand appliances	*	*	*	
3. minimum distance between gas pipes and building	*	*	*	*