



**ACS.CHANGEOVER  
CORE GENERIC PART A  
SAFETY ASSESSMENT CRITERIA  
INITIAL & RE-ASSESSMENT  
DOMESTIC TO NON-DOMESTIC  
NATURAL GAS & LPG**

## Introduction

Tests gas safety competence of those intending to extend domestic gas work range to include non-domestic Natural Gas work range.

Comprises:

1. Gas safety legislation and Standards
5. Installation of pipework and fittings
6. Tightness testing and purging (appliance pipework connections) (volume  $\leq 0.15/0.12 \text{ m}^3$ )
8. Unsafe situations, use of emergency notices for pipework
9. Operation and positioning of emergency isolation controls and valves
10. Checking and setting burner pressures and gas rates
11. Operation and checking of appliance gas safety devices and controls
15. Re-establish existing gas supply and relight appliances.

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.

## Range

All non-domestic gas fittings.

## Pre-requisites

### *Initial*

CCN1 or  
CCLP1 or  
QCF or S/NVQ.

### *Re-assessment*

c/o Domestic to ND Core Generic Part A +  
CCN1 or  
CCLP1 or  
QCF or S/NVQ

## Exclusions

Work previously covered in CCN1 or CCLP1.

## References and normative documents

MIs.

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

- HSL56
- GIUSP.

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

## Abbreviations

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AC. Assessment Centre  
 CB. Certification Body  
 LDF. Leak detection fluid  
 MIs. Manufacturer's/manufacturers' instructions  
 OP. Operating pressure  
 OQ. Oral questioning  
 Ref. Reference.

### 1. Gas safety legislation and Standards

KNOWLEDGE AND UNDERSTANDING	REF	I	R
1. Education (School Premises) Regulations. Ventilation rates		✓	

### 3. Products and characteristics of combustion

KNOWLEDGE AND UNDERSTANDING	REF	I	R
1. Installation of CO detectors and indicators in educational establishments		✓	✓

### 4. Ventilation

KNOWLEDGE AND UNDERSTANDING	REF	I	R
1. Ventilation for heating appliances		✓	✓
2. Calculating ventilation for combustion for food technology areas in educational establishments		✓	✓

### 5. Installation of pipework and fittings

KNOWLEDGE AND UNDERSTANDING	REF	I	R
1. labelling CSST in educational establishments		✓	
2. commercial flexible and plug in connections, specifically for educational establishments		✓	
3. siting and installation requirements for gas controls and isolation valves, specifically for educational establishments		✓	

### 6. Tightness testing of appliance pipework connections (volume up to 0.15m<sup>3</sup>)

PERFORMANCE CRITERIA	REF	I	R
1. turn off appliance isolation valve		✓	✓
2. assemble and zero suitable pressure gauge		✓	✓
3. connect gauge to pressure test point or burner injector		✓	✓
4. by-pass appliance regulator or screw down to its maximum outlet pressure (to prevent lock-up) (OQ)		✓	✓
5. test appliance isolation valve for let-by after first ensuring gas is present on inlet side of isolation valve. Allow 1 minute stabilisation		✓	✓
6. re-pressurise connection by gas or air to normal operating pressure and not more than 1.5 times OP		✓	✓
7. close off pressurising medium		✓	✓
8. observe gauge for 2 minutes		✓	✓
9. allow no perceptible drop on gauge		✓	✓
10. re-establish gas supply to appliance and purge of air		✓	✓
11. re-establish appliance regulator and re-set to MIs (OQ)		✓	✓
12. remove gauge and re-establish test point and check using LDF		✓	✓
KNOWLEDGE AND UNDERSTANDING	REF	I	R
1. maximum volume of pipework to which test can be applied		✓	✓
2. procedures where appliance connector pipework exceeds volume allowed		✓	✓
3. appropriate recorded certificates for installation pipework prior to appliance connection		✓	

### 8. Unsafe situations, use of emergency notices and warning labels for pipework

<b>KNOWLEDGE AND UNDERSTANDING</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	GIUSP: non-domestic installations		✓	

## 9. Operation and positioning of emergency isolation controls and valves

<b>KNOWLEDGE AND UNDERSTANDING</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	emergency isolation valves		✓	
2.	emergency controls for inside meter positions		✓	
3.	emergency controls for outside meter positions		✓	
4.	types of automatic isolation valves used		✓	
4a.	awareness of need to refer to special requirements for automatic isolation valves in educational establishments		✓	
4b.	awareness of need to refer to special requirements for isolation, heat, fire, gas and CO detection systems in boiler/plant rooms in educational establishments		✓	
5.	HSL56: non-domestic aspects of Reg.9 (1) to (5) inclusive		✓	

## 10. Checking and setting burner pressures and gas rates

<b>PERFORMANCE CRITERIA</b>		<b>REF</b>	<b>I</b>	<b>R</b>
<b>Measure OP of a non-domestic appliance connected to an installation</b>				
1.	assemble and zero suitable pressure gauge		✓	
2.	dismantle appliance, as required, remove appropriate pressure test screw and connect gauge using suitable tubing		✓	
3.	light appliance, check and record OP and confirm to MIs		✓	
4.	adjust appliance regulator, as required		✓	
5.	turn off appliance, remove gauge, replace test screw, re-establish gas and check test point with LDF		✓	

## 11. Operation and checking of appliance gas safety devices and controls

<b>PERFORMANCE CRITERIA</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	identify gas safety device/control		✓	
2.	check correct operation of each gas safety control/device to MIs		✓	
3.	identify gas safety controls/devices not working correctly by operation and/or visual, audible methods		✓	
4.	demonstrate diagnosis of faulty gas safety device/control		✓	
5.	isolate gas and electrical supplies, where necessary		✓	
6.	repair or replace faulty gas safety control/devices to MIs		✓	
7.	re-establish gas and electrical supplies, where necessary		✓	
8.	check work carried out is gas tight		✓	
9.	confirm correct operation of repaired/ replaced gas safety controls/devices to MIs		✓	
10.	explain safe operation of gas safety control/device		✓	
<b>KNOWLEDGE AND UNDERSTANDING</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	explain principle of operation of controls/devices		✓	
2.	sequence of operation of control/devices switches and valves		✓	

## 15. Re-establish existing gas supply and re-light appliances

<b>PERFORMANCE CRITERIA</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	check installation is gas tight		✓	✓
2.	re-establish gas supply		✓	✓
3.	<b>check appliance(s) visually and re-light, inc.:</b>			
(i)	purge system and appliance(s) of air		✓	✓
(ii)	light appliance(s)		✓	✓
(iii)	confirm satisfactory operation of user controls and leave at original settings		✓	✓
(iv)	visually inspect appliance/installation(s) for unsafe situations		✓	✓
<b>KNOWLEDGE AND UNDERSTANDING</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	describe action when an un-commissioned appliance is identified			✓
2.	confirm actions if pipework and appliances are not tested (commissioned) when gas supply is re-established			✓
3.	HSL56. Reg. 33 Testing of appliances 33 (1) to (3) inc.			✓