Strategic Management Board

ACS.CoDNESP1 (CCN1 to CESP1) SAFETY ASSESSMENT CRITERIA INITIAL & RE-ASSESSMENT EMERGENCY SERVICE PROVIDER &/OR GAS METER INSTALLER NATURAL GAS

CoDNESP1	INITIAL & RE-ASSESSMENT

Introduction

Tests gas safety competence for those holding CCN1 who intend to carry out work for an ESP, dealing with gas emergencies downstream of the ECV/MIV.

Comprises:

5. Installation of pipework and fittings
8. Unsafe situations, use of emergency notices and warning labels
9. Operation and positioning of emergency isolation controls and valves (in ND premises)
4/12. Ventilation/chimney standards (ND)
15. Re-establish existing gas supply and relight appliances (ND).

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.

Range

All domestic/non-domestic gas fittings and appliances.

Pre-requisites

Initial

CCN1 or
QCF or S/NVQ.

Re-assessment

CCN1
+
CoDNESP1.

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

AC. Assessment Centre
AECV. Additional emergency control valve
CSST. Corrugated stainless steel tube
ECV. Emergency control valve
I. Initial
MI. Manufacturer's/manufacturers' instructions
MIV. Meter inlet valve
MOP. Maximum operating pressure
ND. Non-domestic
R. Re-assessment

Ref. Reference.

5. Installation of pipework and fittings. Pipe sizes: 28 mm to 100 mm

PERFORMANCE CRITERIA	REF	I	R
1. join steel pipe using flanges and appropriate jointing material		√	√
2. join CSST		√	√
3. check synthetic cover of CSST for damage		√	√
4. bend CSST within limitations of bend radii		√	√
5. recognise PE pipe is connected to steel pipe using appropriate transitional fittings, methods and agents		√	√
6. join stainless steel/copper pipe with appropriate pressed joints and tools		√	√
KNOWLEDGE AND UNDERSTANDING	**REF**	**I**	**R**
1. steel pipe and fittings for ND applications, in particular flange categories		√	√
2. stainless steel pipe/copper pipe joined with appropriate pressed joints and tools		√	√
3. limitations on use of CSST		√	√
4. brazing copper capillary fittings		√	√
5. limitations of compression coupling joints with copper non-domestic pipework		√	√
6. limitations on nominal bores for jointing steel pipework		√	√

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

KNOWLEDGE AND UNDERSTANDING	REF	I	R
1.			
2. GIUSP: ND installations		√	√
3. HSL56: Reg.15 Meters – emergency notices 15 (1) & (2)		√	√

9. Operation and positioning of emergency isolation controls and valves (ND premises)

KNOWLEDGE AND UNDERSTANDING	REF	I	R
1. emergency isolation valves		√	√
2. types of emergency isolation valves used		√	√

4/12. Ventilation and chimney standards (ND)

KNOWLEDGE AND UNDERSTANDING	REF	I	R
Classification of gas flue systems: flueless, open flue, room sealed			
ND heating appliance ventilation and chimney:			
1. **terminal types and positions for Type B open/natural draught chimneys;**	IGEM/UP10 Ed4		
(i) fan diluted flues		√	√
(a) dilution air intakes		√	√
(b) discharge point			√
(ii) flueing for balanced compartments		√	√
(iii) appreciation of common flue /chimney construction requirements - suitable materials for large chimneys		√	√
(iv) flue dampers and stabilisers		√	√
(v) testing natural draught flues		√	√
2. identify installation of adequate and inadequate heating ventilation		√	√
3. ventilator/grille locations/positions for ND heating appliances		√	√
4. safety interlocks between ventilation fans and gas appliances		√	√
5. recognise ventilation requirements for mechanical ventilation of Type B2 (forced draught) boilers (inlet and extract)		√	√
6. calculate natural ventilation at high and low level direct to outside air for Type B boilers in:		√	√
(i) plant rooms		√	√
(ii) enclosures		√	√
ND laundry exhaust duct and ventilation:			
1 calculate individual exhaust duct requirements		√	√
2. siting of exhaust ducts and preferred termination procedures		√	√
3. calculate individual equipment ventilation		√	√
4. calculate multi-equipment ventilation		√	√
PERFORMANCE CRITERIA	**REF**	**I**	**R**
1. recognise suitable overhead canopy extraction for ND catering appliances	IGEM UP19	√	√
2. identify installation of inadequate ventilation in ND situations		√	√

KNOWLEDGE AND UNDERSTANDING		REF	I	R
1.	**HSE – ventilation of kitchens in ND catering establishments:**	IGEM/UP19		
(i)	replacement air		√	√
(ii)	canopy performance		√	√
(iii)	dealing with interlocks fitted with overrides		√	√
(iv)	recognition of when to carry out a canopy performance test		√	√
(v)	flueing systems		√	√
(vi)	identification and installation of in tumescent air vents		√	√
(vii)	operation of passive stack ventilation		√	√
(viii)	ventilation for internal kitchens		√	√

15. Re-establish existing gas supply and relight appliances (ND)

PERFORMANCE CRITERIA		REF	I	R
1.	check installation is gas tight		√	√
2.	re-establish gas supply		√	√
3.	**visually check appliance(s) and re-light inc.:**			
(i)	purge system and appliances of air		√	√
(ii)	light appliance(s)		√	√
(iii)	confirm satisfactory operation of user controls		√	√
(iv)	inspect appliance installation(s) visually for unsafe situations		√	√