



**ACS.HWB1  
SAFETY ASSESSMENT CRITERIA  
INITIAL.DOMESTIC  
NATURAL GAS & LPG  
SWIMMING POOL BOILERS**

## HWB 1 INITIAL

### Introduction

Tests gas safety competence to install, exchange, commission, disconnect, service, repair, and break down gas fired hot water boiler appliances with atmospheric burners.

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

Free standing hot water boilers e.g. Teledyne Laars, Certikin, Hayward, Purex, Raypac, etc. of heat input 15 kW to 140 kW.

### Pre-requisites

CCN1 or  
CoCDN1 or  
CoLPNG1 or  
QCF or S/NVQ for domestic applications or  
COCN1 or COCLP1 or S/NVQ for non-domestic applications.

### Exclusions

Plumbing, electricity or 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 6644
- GIUSP.

ACS.SMB. 003.ACDND 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  
OP. Operating pressure  
Ref. Reference.

<b>PERFORMANCE CRITERIA</b>		<b>REF</b>	<b>I</b>
1.	check appliance assembly is complete and fit for use and purpose		✓
2.	isolate gas supply prior to work		✓
3.	check appliance base is of suitable construction		✓
4.	connect appliance and seal to 'indoor' flue system		✓
5.	connect appliance and seal to 'outdoor' flue system		✓
6.	connect appliance to gas supply		✓
7.	re-establish gas supply		✓
8.	check work carried out is gas tight		✓
9.	ensure appliance is correctly located, level and stable		✓
10.	dismantle and clean appliance operational gas safety components, as required, using appropriate cleaning methods and agents (e.g. burners, primary air ports, baffles, combustion chambers and flue bends, ignition devices, thermostats, FSDs)		✓
11.	<b>commission appliance:</b>		
(i)	purge of air		✓
(ii)	charge boiler with water		✓
(iii)	check OP of appliance		✓
(iv)	check burner flame stability and ignition- adjust as required		✓
(v)	check flue system is operating correctly		✓
(vi)	check user controls are operating correctly		✓
(vii)	check safety control devices operating correctly to MIs		✓
(viii)	check temperature controls are operating safely		✓
12.	check appliance combustion gaskets and flue connections are sound and operating to MIs		✓
13.	identify defects on gas safety components		✓
14.	explain safe operation and use of appliance to MIs		✓
<b>KNOWLEDGE &amp; UNDERSTANDING</b>		<b>REF</b>	<b>I</b>
1.	identifying unsafe conditions		✓
2.	diagnosing gas safety faults		✓
3.	effect of ineffective appliance case seals/gaskets		✓
4.	suitable and unsuitable appliance room/space locations		✓
5.	clearances- proximity of combustible materials - fire proofing		✓
6.	operation of mechanical and electrical controls		✓