



**ACS.WAT1
SAFETY ASSESSMENT CRITERIA
INITIAL.DOMESTIC
NATURAL GAS AND LPG
INSTANTANEOUS WATER HEATERS**

WAT1

INITIAL

Introduction

This Gas Safety Assessment is designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair, breakdown and commission domestic instantaneous gas water heating appliances by practical and knowledge and understanding assessment.

Appliance range

Flueless instantaneous water heaters (input not exceeding 12kW) and open flued, balanced and fan flued instantaneous water heaters (input exceeding 12kW).

Pre-requisites

(CCN1/CCLP1 + CPA1), or CCN1/CCLP1 sat from 1st April 2012 or valid equivalent

Or

Valid aligned Gas Utilisation QCF or Gas Services S/NVQ.

Exclusions

The scheme does not assess the installation of water supplies, water taps to sinks/baths, showers or electrical or building work.

Appliances with air/gas ratio control (refer to CENWAT).

References and normative documents

Appliance MIs.

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

- HSL56
- BS 5546
- GIUSP

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

Abbreviations

AC. Assessment Centre

I. Initial

MIs. Manufacturer's/manufacturers' instructions

OP. Operating pressure

Ref. Reference.

PERFORMANCE CRITERIA		REF	I
1.	the appliance assembly is complete and is fit for purpose		✓
2.	the gas supply is isolated prior to work being commenced		✓
3.	the appliance is correctly sealed to the balanced flue set		✓
4.	the appliance operational gas components are dismantled and cleaned, using appropriate cleaning methods and agents (e.g. burner, injectors, primary air ports, ignition, flame supervision devices, combustion chambers and flue-ways)		✓
5.	the gas supply is re-established		✓
6.	the work carried out is gas tight		✓
7.	the appliance is commissioned as follows: -		
(i)	the appliance is purged of air		✓
(ii)	the working pressure at the appliance is correct		✓
(iii)	the burner flame picture, stability and ignition is are correct		✓
(iv)	the user controls are operating correctly		✓
(v)	the safety control devices are operating correctly		✓
(vi)	the temperature controls are operating correctly		✓
(vii)	the appliance is adjusted to give correct temperature rise and output		✓
8.	defects on gas safety components are identified		✓
9.	the safe operation and use of the appliance is explained		✓
KNOWLEDGE & UNDERSTANDING		REF	I
1.	identification of unsafe conditions		✓
2.	diagnosis of gas safety faults		✓
3.	suitable and unsuitable appliance room/space locations		✓
4.	identification of the effects of a scaled heat exchanger		✓
5.	the effect of ineffective appliance case seals		✓
6.	the operation of mechanical and electrical gas safety control devices		✓
7.	clearance requirements – proximity of combustible materials – fire proofing of compartments		✓