



**ACS.EFJLP1  
SAFETY ASSESSMENT CRITERIA  
INITIAL & RE-ASSESSMENT  
DOMESTIC/NON-DOMESTIC  
NG & LPG**

**EFJLP1**

**INITIAL & RE-ASSESSMENT**

**Introduction**

Tests gas safety competence in electro-fusion jointing of PE pipework and fittings.

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**

Electro fusion fittings.

**Pre-requisites**

**Initial**

None.

**Re-assessment**

EFJLP1.

**Exclusions**

Digging and refilling pits and trenches for underground pipework; pipework containing liquefied LPG; handling delivery of coiled PE pipe; pipework protection.

Butt fusion jointing

**References and normative documents**

MIs.

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

- HSL56
- UKLPG COP 22
- GIUSP
- IGEM/UP/2 Edition 3.

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

**Abbreviations**

AC. Assessment Centre

CB. Certification Body

I. Initial

MIs. Manufacturer's/manufacturers' instructions

R. Re-assessment

Ref. Reference.

<b>PERFORMANCE CRITERIA</b>		<b>REF</b>	<b>I</b>	<b>R</b>
<b>1. electro-fusion jointing:</b>				
(i)	cut pipe squarely using appropriate tools		√	√
(ii)	de-burr pipe, remove shavings and adequately scrap using appropriate tools		√	√
(iii)	select fusion joint; assemble and clamp onto pipe using appropriate equipment		√	√
(iv)	connect leads from electro-fusion control box to terminals of fitting		√	√
(v)	check fusion time marked on fitting (inc. on automatic fittings)		√	√
(vi)	set control box timer (when manual fittings are fitted)		√	√
(vii)	clear all personnel from fitting while fusion is in progress		√	√
(viii)	start fusion		√	√
(ix)	check control box to ensure fusion time has elapsed		√	√
(x)	check fitting to ensure fusion indicators have risen correctly		√	√
(xi)	leave fitting clamped until cooling time is completed		√	√
(xii)	remove equipment and visually examine joint		√	√
(xiii)	check work carried out is gas tight		√	√
<b>KNOWLEDGE AND UNDERSTANDING</b>		<b>REF</b>	<b>I</b>	<b>R</b>
1.	precautions when using control box		√	
2.	procedures in event of fusion failure		√	
3.	types of electro-fusion fittings		√	
4.	protection of electro-fusion fittings		√	
5.	PE pipe and fittings for commercial applications		√	√
6.	recognition of suitable PE fusion welds		√	√