

Statutory basis: Electricity at Work Regulations 1989 regs 4(3), 12, 13, 14 and 16, with HSE guidance HSG85 (3rd edition, 2013) and HSR25 (3rd edition, 2015). Test instruments and leads to GS38 (4th edition, 2015). Site distribution assemblies to BS EN 61439-4:2013. Installations designed, installed and verified to BS 7671:2018+A4:2026 — Amendment 4 was published on 15 April 2026 and the previous amendment is withdrawn on or about 15 October 2026, so confirm which amendment the design was issued against. COSHH 2002 applies to the dusts, resins and fumes generated by the containment and fixing work. This document is the recorded safe system of work required by HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5.

1 DOCUMENT AND PROJECT IDENTIFICATION

RAMS REFERENCE	PROJECT / SITE REF	SITE NAME AND ADDRESS	DATE PREPARED	NEXT REVIEW DATE
CLIENT / PRINCIPAL CONTRACTOR	PLANNED START	DURATION	OPERATIVES	SUPERVISING THE WORK

2 SCOPE OF WORKS

Initial verification of new installations: safe isolation, dead testing, controlled energisation, live testing where justified, functional testing and certification to BS 7671, by competent test staff.

This document does not cover: fault-finding on live commissioned systems, HV testing, and any live work where the EAWR reg 14 conditions are not met and recorded.

SITE-SPECIFIC SCOPE, LOCATIONS AND LIMITATIONS

3 RISK ASSESSMENT — SCORE EACH RISK FOR THIS SITE, THEN ADD WHAT IS MISSING

The hazards and controls below are the starting point for this activity, written by a working main contractor. They are not complete for your site until a competent person has scored each risk, added the site-specific hazards, and struck out anything that does not apply. Rate risks High / Medium / Low before and after controls.

1. Contact with live conductors or inadvertent energisation

At risk: Electricians, others nearby

Controls: Work dead wherever reasonably practicable (EAWR reg 14). Isolate, lock off with a personal lock, retain the key, and prove dead at the point of work with a GS38-compliant voltage indicator proved live—dead—live. Treat every conductor as live until proved dead. Where the site operates an electrical permit system, no work starts before the permit is issued.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

2. Arc flash during switching, proving or testing

At risk: Electricians

Controls: Dead working first. Where live proving or testing is justified (record the EAWR reg 14 justification), use GS38 test leads and instruments, arc-rated PPE as assessed, insulated mats and screening, and a second person where the assessment requires one.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

3. Stored and standby energy — capacitors, UPS, generators, PV

At risk: Electricians

Controls: Identify every source of supply and stored energy before isolating; allow capacitor discharge time; prove dead at the point of work; treat UPS-fed and PV circuits as live until every source is secured and locked off.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

4. Uncontrolled energisation of circuits others are working on

At risk: Everyone on the installation

Controls: One person controls energisation. Confirm every circuit is complete, every board closed and every other trade clear before energising; announce energisation; lock off anything not being tested.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

5. Instrument or lead failure during live tests

At risk: Test staff

Controls: GS38-compliant leads — fused, finger-barriered, shrouded; inspect before each use; prove the instrument before and after; never improvise test connections.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

Site-specific hazards not listed above — every site has at least one:

HAZARD	WHO IS AT RISK	CONTROLS	INITIAL HI...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- 01 Confirm the installation is complete, covers fitted and circuit charts populated; agree the test programme and sequence with the site.
- 02 Notify all trades and the occupier before testing starts; establish control of every board being tested.
- 03 Safe isolation: lock off, prove dead live—dead—live at each point of work before dead tests.
- 04 Dead tests in BS 7671 order — continuity, insulation resistance, polarity — recording results as work proceeds.
- 05 Pre-energisation checks: covers on, blanks fitted, charts complete, no other trade in contact with the installation.
- 06 Energise under the control of one named person; announce it; energise progressively from the origin.
- 07 Live tests where justified and recorded (earth fault loop, RCD operation, functional checks) using GS38 instruments and arc-rated PPE as assessed.
- 08 Complete certification and schedules; hand results to the principal contractor; leave the installation in a defined, labelled state.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE**5 PLANT, EQUIPMENT AND MATERIALS**

- | | |
|---|---|
| ☐ Multifunction tester (calibrated, in date) | ☐ Lock-off kit |
| ☐ GS38 leads and proving unit | ☐ Two-way radios for board control |

INSPECTION / THOROUGH EXAMINATION REFS**COSHH ASSESSMENT REFS****6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST**

- | | | |
|--|--|---|
| ☐ Head protection | ☐ Gloves — task-rated | ☐ Arc-rated PPE where assessed |
| ☐ Safety footwear | ☐ Eye protection | |
| ☐ High visibility | ☐ Hearing protection | |

RPE TYPE, FACE-FIT STATUS, AND ANY OTHER PPE REQUIRED**7 PERMITS REQUIRED BEFORE THIS WORK STARTS**

A permit authorises this work in that place, on that day. It extends the safe system of work in this document — it does not replace it (HSE HSG250). The site issues the permit; record its number before work starts.

KD-PTW-EL-010 — Electrical Permit to Work

Where the site operates a permit system — always on existing or occupied installations.

PERMIT NUMBER**KD-PTW-EL-011 — Electrical Isolation Certificate**

For the isolations behind dead testing.

PERMIT NUMBER**8 EMERGENCY ARRANGEMENTS — COMPLETE FOR THIS SITE****FIRST AIDER AND LOCATION****NEAREST A&E****ASSEMBLY POINT****HOW THE ALARM IS RAISED****EMERGENCY ACCESS FOR THIS WORK AREA****SPILL / ENVIRONMENTAL RESPONSE****9 BRIEFING RECORD — EVERYONE WORKING UNDER THIS RAMS SIGNS BEFORE STARTING**

By signing you confirm the contents of this RAMS have been explained to you, you understand the hazards and controls, and you will work to the sequence stated. Tell the supervisor if the work or the site does not match this document — work stops until it does.

NAME	COMPANY	SIGNATURE	DATE

NAME	COMPANY	SIGNATURE	DATE

10 PREPARED AND ACCEPTED

Prepared / adapted for this site by — I confirm I have adapted this document to the site, scored the risks, and that it describes how the work will actually be done.

PRINTED NAME	ROLE / COMPETENCE	COMPANY	SIGNATURE	DATE	TIME

Accepted for the site by — principal contractor or site manager review.

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME

Review this RAMS if the work, the site or the law changes, and at least before each new phase of the works. Flatten the completed PDF before filing so the record cannot be silently edited.

R REVISION HISTORY

Every revision of this document, and every review that found nothing to change. The revision on the front of this sheet is the one you are holding — check kubitdocs.com for the current one before use.

Rev	Date	Class	What changed	Authorised by
D0	2026-08-09	first-issue	First issue.	— not yet approved —
D1	2026-08-10	material	BS 7671 dated to BS 7671:2018+A4:2026 (Amendment 4 published 15 April 2026), with a note to confirm which amendment the design was issued against; BS 5839-1 dated to the 2025 edition; BS EN 61439-4 dated to 2013; HSG85, GS38 and HSG141 cited with their editions; COSHH 2002 added to the legal basis. Legislation position reviewed against Product Legislation Register KD-REG-01 Rev R01.3 and the August 2026 horizon scan; cutoff moved to 10 August 2026.	— not yet approved —
D2	2026-08-11	material	Statutory basis extended to name HSE HSG33 (5th edition, 2020) for roof-mounted PV work, following the addition of the solar PV document. It now appears on the printed legal note.	— not yet approved —
D3	2026-08-11	editorial	Printed legal note corrected. Two sentences that applied to only one document in the electrical set were being printed on all of them: fire detection and alarm cabling to BS 5839-1:2025, which is KD-RAMS-EL-007 alone, and roof-mounted PV under HSG33, which is KD-RAMS-EL-010 alone. Both now print only on the document they govern. No control, field, scope or applicable instrument changed on this document.	— not yet approved —
A0	2026-08-27	review	Approved for issue by the author. Content unchanged from D3; the draft status strip is removed. No independent third-party review has been carried out.	Author — director, UK principal contractor, SMSTS. Not an independent review.

Class: first-issue · material (the law, a control, a field or the scope changed — past buyers are notified) · editorial (wording or layout only) · review (checked, nothing changed) · withdrawal. Revision prefix D = draft, not approved and not for sale; A = approved for issue by the person named, on the date shown.