

EV CHARGE POINT INSTALLATION

ACTIVITY RAMS — ADAPT TO SITE BEFORE USE

Domestic and small commercial chargers · the supply and the earthing arrangement

KD-RAMS-EL-009 Rev A0

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and verified to BS 7671:2018+A4:2026 — Amendment 4 was published on 15 April 2026 and the previous amendment is withdrawn on or about 15 October 2026, so confirm which amendment the design was issued against.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. Manual handling of charge point units, cable drums and ducting falls under the Manual Handling Operations Regulations 1992. CDM 2015 regs 13 and 15 apply to this 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

Installation of electric vehicle charge points: supply from the consumer unit or distribution board, cable routing, mounting, the earthing arrangement and functional testing.

This document does not cover: the electrical design and load assessment, DNO supply upgrades, and any work outside the installer's scheme registration.

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. Getting the charge point earthing arrangement wrong

At risk: The vehicle user, anyone touching the vehicle

Controls: The earthing arrangement is designed, not chosen on site. Where a PME supply is used, protection against a broken PEN conductor is provided by the method the design specifies — an open-PEN detection device, or an installation earth electrode to the design. A charge point is never energised with that arrangement unresolved, and the test results are recorded before it is demonstrated to the customer.

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

2. Striking hidden services when drilling, chasing or fixing

At risk: Operatives

Controls: Check drawings and the services register, scan with a CAT before drilling or chasing, respect BS 7671 safe zones, use battery tools where practicable, and stop and reassess if an unrecorded service is found.

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

3. Manual handling of containment, cable drums, boards and fittings

At risk: Operatives

Controls: Mechanical aids first — trolleys, drum jacks, hoists. Two-person lifts for tray runs, boards and drums; order materials in manageable lengths; keep carrying routes clear and lit.

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

4. Interface with occupants, other trades and the public

At risk: Occupants, other trades, the public

Controls: Segregate the work area — barriers, signage, sheeting; agree access routes and working hours with the occupier; never obstruct escape routes; deliveries and waste runs outside peak movement times where agreed.

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

5. Work at height from steps, podiums, towers or MEWPs

At risk: Operatives, and anyone below

Controls: Select access by the Work at Height hierarchy — podium or tower before steps; MEWPs operated by trained (IPAF) operators only. Inspect access equipment before use, establish an exclusion below overhead work, and secure tools against dropping.

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

6. Slips, trips and trailing leads

At risk: Everyone in the work area

Controls: Route 110V leads at high level or under mats, keep the work area clear, remove waste as it is created, and maintain task lighting.

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:

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

4 METHOD — SEQUENCE OF WORK

- 01 Confirm the supply capacity, the design and the earthing arrangement before starting.
- 02 Isolate, lock off and prove dead at the consumer unit or board before any connection.
- 03 Scan and prove before drilling through walls; check both faces for services.
- 04 Route and clip the supply cable to BS 7671:2018+A4:2026 with the specified protection.
- 05 Mount the unit at the design height on a substrate that will carry it.
- 06 Complete the earthing arrangement to the design — the broken-PEN requirement is not a site decision.
- 07 Test, record and demonstrate to the customer; leave the certificate and state the isolation position.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

5 PLANT, EQUIPMENT AND MATERIALS

- Cable and pipe detector
- Lock-off kit

- Multifunction tester in calibration
- Core drill with extraction

INSPECTION / THOROUGH EXAMINATION REFS

COSHH ASSESSMENT REFS

6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST

- Head protection
- Safety footwear
- High visibility

- Gloves — task-rated
- Eye protection
- Hearing protection

- Arc-rated PPE where assessed
- Eye protection for core drilling

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
For isolation and connection at the board.

PERMIT NUMBER

KD-PTW-PE-009 — Permit to Enter
For occupied dwellings and premises.

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.

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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	2026-08-11	first-issue	First issue.	— not yet approved —
D1	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 —
D2	2026-08-11	material	PPE section corrected. "Eye protection for core drilling" was written for this document but was never printed: the build applied the trade-wide PPE list and discarded anything added for an individual activity. It now prints alongside the trade PPE. No PPE has been removed.	— not yet approved —
D3	2026-08-11	material	Printed legal note extended to name the Manual Handling Operations Regulations 1992 and CDM 2015 regs 13 and 15. Both were already listed as the statutory basis on the product page but did not appear on the document itself. Nothing has been removed.	— 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.