

Statutory basis: LOLER 1998 reg 8 for planning the lift, including where the machine stands; BS 7121-1:2016 for lift planning and BS 7121-3:2017 for mobile crane siting and outrigger loads; BS 8460:2025 for MEWPs; BS 5975-1:2024 for temporary works procedures where mats are designed; BRE BR 470 (2004) where tracked plant stands on a working platform; HSE HSG47 (3rd edition, 2014) and CDM 2015 reg 25(4) for underground services; CDM 2015 regs 13 and 15. 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

Checking the ground where mobile cranes, MEWPs, concrete pumps, telehandlers on stabilisers and tracked plant will stand: obtaining the outrigger or track loads, identifying voids, services, excavations and made ground, sizing and placing spreader mats to the lift plan or temporary works design, and watching for settlement while the machine is set up.

This document does not cover: telehandlers (KD-RAMS-PL-001), MEWPs (KD-RAMS-PL-002), the crane lift interface (KD-RAMS-PL-003), concrete pump operation, boom placement and line clearing (KD-RA-CN-003), trial pits and plate bearing tests (KD-RA-GW-001), and the design of working platforms (the temporary works designer's); crane operation is the operator's.

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. Outrigger or track loads greater than the ground can carry

At risk: Operator, everyone within the overturn radius

Controls: Outrigger or track loads for the configuration and duty taken from the manufacturer's data or the lift plan before the machine arrives; the allowable ground bearing pressure taken from the site investigation or the temporary works designer; mats sized so the pressure under them is within it. No figures from memory — no data, no set-up.

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

2. Voids, chambers, drains and basements under the set-up

At risk: Operator, those nearby

Controls: Drawings, services records and the site team's knowledge checked for voids, chambers, drains, basements, retaining walls and backfilled trenches; every outrigger position scanned with CAT and genny to HSE HSG47 (3rd edition, 2014); machines kept off covers, trench lines and excavation edges by the distance the designer or lift plan states.

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

3. Made ground, recent backfill and ground softened by weather

At risk: Operator

Controls: Made ground and backfill treated as unproven until the designer confirms it; positions re-inspected before set-up after rain, frost or thaw; standing water at a position means it is re-assessed, not matted over.

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

4. Mats undersized, damaged or poorly bedded

At risk: Operator, those nearby

Controls: Mats of the size and type the lift plan specifies, checked for cracks, splits and delamination before use; bedded level in full contact with the ground with the pad central; stacked timbers and improvised packing never used in place of a specified mat.

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

5. Slopes, edges and working platforms

At risk: Operator, those below

Controls: No set-up near an excavation, embankment or retaining wall without the temporary works designer's confirmation; where tracked plant stands on a working platform, the platform is used only as its design and current certificate allow; the machine levelled within the manufacturer's limits on its outriggers, never by packing up one side.

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

6. Settlement or movement during the operation

At risk: Everyone within the overturn radius

Controls: Machine level and mats checked after the first load and at the intervals the lift plan sets; any sinking, cracking or heave at a mat stops the operation — load lowered, machine made safe, the Appointed Person or designer called before work resumes.

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

7. Handling heavy outrigger mats

At risk: Operatives

Controls: Mats beyond a safe two-person lift moved by the machine's own mat-handling arrangement or another machine; lighter mats carried by two using their handles; hands clear as outriggers lower onto pads.

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

8. People and vehicles in the set-up area

At risk: Everyone on site

Controls: Outrigger positions and the slew or swing radius barriered before stabilisers deploy; a banksman controls entry while the machine sets up and stows.

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

- Obtain the machine's outrigger or track loads for the planned configuration and the allowable ground bearing pressure from the lift plan or temporary works design.
- Walk the set-up area with the operator: voids, chambers, drains, trenches, basements, slopes and overhead obstructions.
- Scan each outrigger position for services and mark it; trial hole by hand where a service is near.
- Confirm the mats specified are on site and inspect them.
- Prepare each position as the designer permits: level, firm, clear of edges by the stated distance, no standing water.
- Barrier the set-up area and slew radius.
- Place mats centrally under each outrigger, fully bedded; deploy outriggers to the manufacturer's configuration for the duty.
- Level the machine within its limits; record positions and mats on the lift plan or set-up check sheet.
- Check level and mats after the first load and at the plan's intervals.
- Stop on any settlement, cracking, heave or water appearing at a mat: lower the load, make the machine safe, and refer to the Appointed Person or designer.
- After stowing, inspect the positions and barrier or reinstate any damage.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

5 PLANT, EQUIPMENT AND MATERIALS

- Outrigger mats of the size specified
- CAT and genny
- Machine level indicator or spirit level
- Barriers and signage
- Lift plan or set-up check sheet

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

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-LO-008 — Lifting Operations Permit

For every crane lift and any lift on stabilisers the site treats as non-routine.

PERMIT NUMBER

KD-PTW-EX-005 — Excavation & Permit to Dig

Where outrigger positions are excavated, trial holed or regraded.

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

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	2026-09-11	first-issue	First issue.	— not yet approved —
A0	2026-09-11	review	Approved for issue by the author. Content unchanged from the reviewed draft; 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.