

MCK GROUP – HS-RA-001 CRANE TRUCK RISK ASSESSMENT

Worker-Accessible App Extract – Master Document: HS-RA-001 Risk Assessment Register V1.1



Related Documents: HS-PR-001 Risk Assessment Procedure; HS-PR-002 Daily Plant Inspection Procedure; HS-PR-003 Personal Risk Assessment (Take 5) Procedure; HS-PR-005 Incident Investigation & Reporting Procedure; OP-PR-017 Unsafe Plant Isolation Procedure; OP-PR-018 Spill Management & Containment Procedure; Driving Heavy Vehicles Procedure; Fatigue Management Procedure; Manual Handling Procedure; Working Alone Procedure; Vehicle Loading Crane SWMS; Loading & Unloading Plant & Equipment SWMS; Operating Mobile Plant SWMS; Overhead Power SWMS; Relevant task-specific SWMS; Plant Maintenance Register; Training & Competency Register; MCK Group IMS Registers Master.

Risk ID	Risk Event / Activity	Hazard	Causes	Potential Impacts	Current Controls	Initial Risk	Residual Risk
CT-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Vehicle or crane failure, collision, dropped load, injury	Daily Plant Inspection; defect reporting; maintenance system; operator checks before use	15	4
CT-002	Driver/operator competency	Untrained or unauthorised operation	Inadequate competency, unfamiliar controls or lifting task	Serious injury, plant damage, dropped load, poor decisions	Appropriate driver licence; competency verification; training records; supervision; manufacturer instructions	15	4
CT-003	Driving crane truck on public roads	Road collision	Speed, traffic, distraction, poor road conditions	Fatality, serious injury, vehicle damage, public harm	Licensed driver; road rules; journey planning; seatbelt; vehicle inspections; fatigue controls	15	4
CT-004	Fatigue during driving or crane operation	Reduced alertness	Long hours, travel, early starts, insufficient rest	Collision, operating error, serious injury	Fatigue Management Procedure; scheduling; breaks; fit-for-work expectations; supervisor monitoring	15	4
CT-005	Crane set-up area	Unstable or unsuitable ground	Soft ground, voids, slopes, underground services	Crane overturn, outrigger failure, serious injury or fatality	Ground assessment; level set-up; safe clearances; approved work area; supervisor oversight	15	4
CT-006	Deploying outriggers/stabilisers	Crush or pinch points	People near outriggers, poor visibility, unexpected movement	Crushing injury, hand injury	Exclusion zone; operator checks; clear communication; controlled deployment; stable pads where required	15	4
CT-007	Outrigger support	Outrigger sinking or slipping	Insufficient bearing area, poor packing, unstable ground	Crane instability, overturn, dropped load	Suitable outrigger pads/mats; level ground; visual monitoring; manufacturer requirements	15	4
CT-008	Crane lifting operations	Crane overload	Load weight unknown, excessive radius, load chart ignored	Structural failure, overturn, dropped load, fatality	Manufacturer load chart; known load weights; rated capacity; competent operator; planned lift	15	4
CT-009	Lifting and slewing loads	Dropped or swinging load	Rigging failure, sudden movement, wind, poor control	Fatality, crushing injury, property damage	Rated lifting gear; pre-use inspection; exclusion zone; controlled movements; tag lines where appropriate; no persons under suspended loads	15	4
CT-010	Rigging and attachment of loads	Incorrect rigging / load shift	Wrong sling method, damaged gear, unsuitable lifting points	Dropped load, crush injury, load damage	Rated lifting gear; competent persons; correct lifting points; gear inspections; load balance checked	15	4
CT-011	People near suspended loads	Person struck or crushed by load	Workers entering lift zone, inadequate communication	Fatality or serious injury	Exclusion zones; barriers/spotters where required; communication; no persons under suspended loads	15	4
CT-012	Crane slewing area	Crush between crane/load and fixed object	Restricted space, blind spots, people within slew radius	Crushing injury or fatality	Slew exclusion zone; spotter where needed; controlled movement; communication	15	4
CT-013	Operating near overhead powerlines	Electrical contact or arcing	Boom or load enters unsafe approach distance	Electrocution, fire, fatality	Identify powerlines; exclusion distances; spotter; route/lift planning; signage; de-energisation where required	15	4
CT-014	Operating near underground services	Damage from outriggers or set-up	Unknown services beneath crane set-up area	Service damage, electrocution, gas/water release	Before You Dig/service plans where relevant; site assessment; approved set-up areas	10	4
CT-015	Wind and adverse weather	Loss of load or crane stability	Strong winds, storms, lightning, poor visibility	Dropped load, overturn, struck-by injury	Weather monitoring; manufacturer wind limits; work suspension criteria; secure loads	15	4
CT-016	Loading/unloading materials	Falling or shifting materials	Unstable loads, poor stacking, inadequate restraint	Crush injury, property damage, load loss	Controlled loading area; exclusion zones; stable stacking; competent operator; restraint checks	15	4
CT-017	Load restraint for transport	Load shift or loss during travel	Inadequate restraints, damaged equipment, incorrect tie-down	Road collision, public injury, load damage	Rated restraints; approved tie-down points; pre-departure checks; periodic checks during travel	15	4
CT-018	Accessing truck tray or crane controls	Fall from vehicle	Climbing on tyres/tray, wet surfaces, poor access	Fractures, sprains, serious injury	Designed access points; three points of contact; non-slip footwear; housekeeping	12	4
CT-019	Hydraulic crane system	High-pressure hydraulic failure	Damaged hoses, fittings, poor maintenance	Fluid injection injury, sudden crane movement, environmental spill	Daily inspections; preventative maintenance; isolation before repair; hose/fitting inspections	10	4
CT-020	Crane maintenance or repairs	Unexpected movement / stored energy	Inadequate isolation, pressure not released	Crushing, injection injury, serious injury	Unsafe Plant Isolation Procedure; competent maintenance personnel; depressurisation; maintenance records	15	4
CT-021	Refuelling crane truck	Fuel spill or fire	Overfilling, hose failure, ignition source	Environmental contamination, burns, fire	Spill kits; controlled refuelling; no ignition sources; trained personnel; inspections	12	4
CT-022	Communication during lifts	Miscommunication	Noise, poor visibility, unclear signals, multiple persons directing lift	Unexpected movement, dropped load, injury	Single designated signal person where required; radios/standard signals; pre-lift briefing	15	4
CT-023	Remote or isolated crane truck work	Delayed emergency response	Communication blackspots, remote forestry or park sites	Serious injury escalation, delayed rescue	Working Alone Procedure; check-ins; emergency contacts; site location details; first aid	10	4
CT-024	Crane stowage before travel	Crane/boom or outriggers not fully secured	Incomplete stowage, rushed departure, failed interlock	Collision, property damage, public risk	Operator stowage checks; visual confirmation; warning/interlock systems where fitted; pre-departure inspection	15	4
CT-025	Fatigue management	Fatigue / reduced alertness	Long hours, early starts, travel, remote work, insufficient rest	Vehicle or plant incident, injury, reduced decision-making	Fatigue Management Procedure, work scheduling, breaks, supervisor monitoring, fitness-for-work expectations	12	4

CT-026	Psychosocial	crane truck operations	Workload, time pressure, fatigue, lifting and traffic demands, remote work, poor communication or workplace conflict.	Stress, reduced concentration, poor decisions, psychological injury and increased incident risk.	Worker consultation; lift planning; clear roles and communication; supervision; fatigue management; reasonable workloads and breaks; respectful workplace; reporting pathways; management support.	12	6
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