# 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 |
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| 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 |

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| 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** |
| CT-027 | Manual handling | Hazardous manual tasks | Lifting chains, slings, equipment and materials; awkward postures and repetitive movements | Musculoskeletal injuries, strains and sprains | Mechanical aids; minimise manual lifting; suitable work positioning; team handling where appropriate; task planning | **9** | **6** |

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