

MCK GROUP – HS-RA-001 LOW LOADER TRAILER 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-003 Workshop Procedure; OP-PR-017 Unsafe Plant Isolation Procedure; Driving Heavy Vehicles Procedure; Fatigue Management Procedure; Manual Handling Procedure; Loading & Unloading Plant & Equipment SWMS; Relevant heavy vehicle and transport 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
LL-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Road incident, trailer failure, load loss, serious injury	Daily Plant Inspection; defect reporting; maintenance system; driver visual checks before use	15	4
LL-002	Coupling to prime mover	Crush or pinch injury	Person between vehicles, unexpected movement, poor communication	Crushing, serious injury or fatality	Level ground where practicable; park brakes applied; clear communication; competent driver; exclusion from crush zone	15	4
LL-003	Fifth wheel / kingpin connection	Coupling failure or separation	Incorrect engagement, worn or damaged components	Trailer separation, road crash, fatality	Pre-start inspection; tug test; visual confirmation; maintenance inspections; defect reporting	15	4
LL-004	Air brake connections	Loss of braking	Incorrect connection, hose damage, leaks or disconnection	Reduced braking, collision, serious injury	Airline inspection; correct connection; leak checks; maintenance system; daily inspection	15	4
LL-005	Electrical connections and lighting	Loss of lights or indicators	Damaged cable, poor plug connection, electrical fault	Reduced visibility, road collision, infringement	Pre-start light check; secure electrical connections; maintenance and defect reporting	12	4
LL-006	Brake system	Brake failure or poor braking performance	Wear, air loss, poor adjustment, maintenance failure	Collision, jackknife, serious injury or fatality	Scheduled maintenance; daily inspections; fault reporting; roadworthiness inspections where applicable	15	4
LL-007	Tyres and wheels	Tyre blowout or wheel loss	Low pressure, damaged tyre, worn tread, loose wheel components	Loss of control, collision, road hazard	Daily visual inspection; tyre maintenance; wheel security checks; defect reporting	15	4
LL-008	Suspension and structural frame	Structural or suspension failure	Cracks, fatigue, overloading, damaged components	Loss of control, load movement, breakdown	Routine inspection; maintenance scheduling; load limits; defect reporting	10	4
LL-009	Loading plant onto low loader	Plant rollover from ramps/deck	Poor alignment, slippery ramps, unsuitable ground	Fatality, serious injury, plant damage	Competent operator; level loading area; rated ramps; exclusion zone; spotter where required	15	4
LL-010	Unloading plant from low loader	Plant rollover or uncontrolled descent	Poor alignment, wet ramps, steep gradient	Fatality, serious injury, plant damage	Competent operator; level unloading area; rated ramps; exclusion zone; spotter where required	15	4
LL-011	Hydraulic ramps / beavertail operation	Crush or pinch points	People near moving ramps, hydraulic failure, poor communication	Crushing, serious injury	Exclusion zone; controlled operation; visual checks; no persons beneath unsupported ramps	15	4
LL-012	Securing plant for transport	Load restraint failure	Insufficient chains, incorrect tie-down points, damaged restraints	Load shift, road crash, public injury	Rated restraints; approved tie-down points; correct restraint method; pre-departure checks	15	4
LL-013	Load dimensions and overhang	Oversize or unsafe load configuration	Incorrect measurement, load positioned poorly, permits not obtained	Collision, infrastructure strike, regulatory action	Check dimensions; route planning; permits/escort requirements where applicable; compliant signage/flags	10	2
LL-014	Weight distribution	Overloading or axle overload	Incorrect load position, excessive plant weight	Poor handling, tyre/brake overload, regulatory breach	Know plant weights; position load correctly; comply with axle/GVM/GCM limits; supervisor checks	15	4
LL-015	Road travel	Collision or loss of control	Speed, road conditions, long combination, distraction	Fatality, serious injury, vehicle and plant damage	Licensed driver; speed management; route planning; safe following distance; road-condition monitoring	15	4
LL-016	Turning and manoeuvring	Trailer cut-in / swing collision	Long combination, tight turns, restricted space	Collision, property damage, public injury	Route planning; low-speed turns; adequate clearance; spotter where required	15	4
LL-017	Reversing	Collision with people or objects	Blind spots, articulation, poor visibility	Crushing, collision, property damage	Competent driver; mirrors/cameras; spotter where required; low speed; exclusion zone	15	4
LL-018	Parking loaded trailer	Uncontrolled movement	Park brake not applied, unsuitable ground, inadequate chocking	Rollaway, collision, crushing	Suitable parking location; park brakes; chocks where required; shutdown checks	10	4
LL-019	Working around loaded plant	Crush or fall hazard	People accessing deck or standing near unsecured plant	Serious injury or fatality	Exclusion zones; load secured before approach; safe access; no climbing on unstable loads	15	4
LL-020	Manual handling of chains and binders	Musculoskeletal strain / pinch injury	Heavy chains, awkward posture, recoil from tensioners	Sprains, strains, hand injury	Manual Handling Procedure; correct technique; gloves; mechanical assistance where practicable	9	4
LL-021	Roadside breakdown or defect	Exposure to live traffic	Breakdown on road shoulder, poor visibility	Worker struck by vehicle, secondary collision	Move to safe location where possible; hazard lights; warning devices; stay clear of traffic; notify management	15	4
LL-022	Maintenance and repair	Unexpected movement or stored energy	Inadequate isolation, unsupported ramps, air or hydraulic pressure	Crushing, serious injury, fluid injection	Unsafe Plant Isolation Procedure; competent maintenance personnel; secure trailer; depressurise systems	15	4
LL-023	Hydraulic system	High-pressure hydraulic failure	Damaged hoses, fittings or poor maintenance	Fluid injection injury, ramp movement, environmental spill	Daily inspection; preventative maintenance; isolation/depressurisation before repair	10	4
LL-024	Fatigue during transport operations	Reduced driver alertness	Long travel, early starts, extended workday	Collision, poor judgement, serious injury	Fatigue Management Procedure; scheduling; breaks; fit-for-work expectations; supervisor monitoring	15	4
LL-025	Registration and roadworthiness compliance	Use of non-compliant trailer	Expired registration, unresolved defect, missed inspection	Regulatory action, road incident, loss of accreditation	Vehicle Register; maintenance records; defect management; compliance reviews; inspections	10	2
LL-026	Loading/unloading on remote or uneven sites	Unstable loading area	Soft ground, side slope, limited space	Plant rollover, trailer instability, injury	Site assessment; suitable loading area; ground preparation; exclusion zone; supervisor approval	15	4

LL-027	Mud and debris on deck/ramps	Slip / reduced traction	Site contamination, inadequate cleaning	Plant slide, fall, loading incident	Clean deck and ramps; inspect traction surfaces; remove excessive mud before loading	12	4
LL-028	Changes to transported plant or configuration	Incompatible transport arrangement	Different plant size/weight, unsuitable tie-down points	Load shift, overloading, road incident	Review plant dimensions/weights; verify trailer capacity; approved tie-downs; route and restraint review	10	4
LL-029	Plant operation	Mechanical failure during operation	Brake, steering, transmission, track or component failure	Loss of control, collision, rollover, serious injury, plant damage	Preventative maintenance; daily inspections; defect reporting; competent operators	10	4
Controlled Document Notice: This document is a worker-accessible extract from the MCK Group HS-RA-001 Risk Assessment Register. The controlled master register contains the complete risk assessment, action tracking and review information. Refer to the current controlled version for full details.							