

KDG LOGISTICS	INTEGRATED MANAGEMENT SYSTEM (ISO 39001:2012 & ISO 14001:2015)	Doc No.	IMS – SHE 01
	<u>Carrier loading and offloading risk assessment</u>	Compiled By :	Leroy Dwyer
		Approved By :	Abdul Kamdor
		Issue Date :	



Carrier loading and offloading

risk assessment



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Loading and Unloading of Car Carrier Risk Assessment:

1. Falling from Height (Loading Cars on Top Deck):

- **Hazard:** Personnel falling from the top deck during the loading process.
- **Risk Evaluation:** High risk, as falls from height can result in serious injuries or fatalities.
- **Control Measures:**
 - Provide and enforce the use of fall protection equipment, such as safety harnesses with lanyards.
 - Ensure the presence of guardrails and safety nets around the top deck.
 - Conduct regular training on proper loading procedures and use of safety equipment.

2. Moving Vehicles on and off the Carrier:

- **Hazard:** Vehicles in motion pose a risk of collision or personnel being struck.
- **Risk Evaluation:** Moderate to high risk, depending on the proximity and speed of vehicle movements.
- **Control Measures:**
 - Establish clear traffic control procedures.
 - Use designated pathways for vehicles and pedestrians.
 - Install warning signs, mirrors, and barriers to enhance visibility.
 - Enforce speed limits for moving vehicles.

3. Slips, Trips, and Falls:

- **Hazard:** Uneven surfaces, spilled fluids, or debris may lead to slips, trips, and falls.
- **Risk Evaluation:** Moderate risk, as these incidents can cause injuries.
- **Control Measures:**
 - Keep work areas clean and organized.
 - Use slip-resistant surfaces on decks.
 - Provide proper lighting, especially during low visibility conditions.
 - Conduct regular inspections for potential tripping hazards.

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4. Dangers of Strapping Vehicles to the Deck:

- **Hazard:** Risks associated with securing vehicles, including pinch points and potential injury during strapping.
- **Risk Evaluation:** Moderate risk, with the potential for injuries during the securing process.
- **Control Measures:**
 - Provide training on proper strapping techniques.
 - Ensure the use of appropriate personal protective equipment (PPE), such as gloves.
 - Mark and safeguard pinch points.
 - Regularly inspect strapping equipment for defects.

5. Operation of Upper and Lower Decks via Hydraulics:

- **Hazard:** Hydraulic systems pose a risk of malfunctions, leading to equipment failure.
- **Risk Evaluation:** High risk, as malfunctions can result in injuries, damage to vehicles, or structural issues.
- **Control Measures:**
 - Schedule regular maintenance and inspections for hydraulic systems.
 - Provide training for personnel on safe operation and emergency procedures.
 - Have an emergency shutdown system in place.
 - Clearly mark the safe operating zones during hydraulic operations.

6. Use of Personal Protective Equipment (PPE):

- **Hazard:** Insufficient use or misuse of PPE may expose personnel to various risks.
- **Risk Evaluation:** Moderate risk, as inadequate PPE usage can lead to injuries or health issues.
- **Control Measures:**
 - Enforce the mandatory use of PPE, including helmets, safety vests, gloves, and steel-toed boots.
 - Conduct regular training sessions on the proper use and maintenance of PPE.
 - Provide readily accessible PPE and ensure its proper fit and condition.

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7. Vehicle Stability During Loading/Unloading:

- **Hazard:** Vehicles may become unstable during the loading or unloading process, increasing the risk of tipping or rolling.
- **Risk Evaluation:** High risk, as unstable vehicles can cause serious injuries and property damage.
- **Control Measures:**
 - Ensure that the carrier deck is level and stable.
 - Train personnel on proper vehicle loading techniques.
 - Use wheel chocks and restraints to prevent vehicle movement.

8. Weather Conditions:

- **Hazard:** Adverse weather conditions (rain, snow, ice) can increase the risk of slips, falls, and reduced visibility.
- **Risk Evaluation:** Moderate to high risk, depending on the severity of weather conditions.
- **Control Measures:**
 - Monitor weather forecasts and postpone operations during severe weather.
 - Implement anti-slip measures on decks.
 - Provide appropriate rain gear and footwear for personnel.

9. Communication Breakdown:

- **Hazard:** Inadequate communication between personnel involved in loading/unloading can lead to accidents.
- **Risk Evaluation:** Moderate risk, as miscommunication can result in errors and accidents.
- **Control Measures:**
 - Establish clear communication protocols and signals.
 - Conduct regular briefings before loading/unloading operations.
 - Ensure that communication equipment is in working order.

10. Exposure to Hazardous Materials:

- **Hazard:** Some vehicles may carry hazardous materials, posing a risk of exposure during loading/unloading.
- **Risk Evaluation:** Moderate risk, as exposure can lead to health issues.

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- **Control Measures:**

- Provide training on handling hazardous materials.
- Ensure the availability of appropriate personal protective equipment (PPE).
- Have an emergency response plan for spills or leaks.

11. Equipment Malfunctions:

- **Hazard:** Malfunctions of loading/unloading equipment, such as ramps or lifts, can lead to accidents.
- **Risk Evaluation:** High risk, as equipment failures can result in injuries or damage to vehicles.
- **Control Measures:**
 - Conduct regular maintenance and inspections of loading/unloading equipment.
 - Implement a pre-operation checklist for equipment.
 - Have backup systems in place and an emergency shutdown procedure.

12. Manual Handling Injuries:

- **Hazard:** Lifting and moving heavy equipment, tools, or vehicle accessories manually can lead to musculoskeletal injuries.
- **Risk Evaluation:** Moderate risk, as manual handling is a common cause of workplace injuries.
- **Control Measures:**
 - Provide training on proper lifting techniques.
 - Use mechanical aids (e.g., forklifts) for heavy items.
 - Rotate tasks to reduce prolonged manual handling.

13. Confined Spaces on the Carrier:

- **Hazard:** Enclosed spaces on the carrier pose a risk of asphyxiation, especially if exhaust fumes accumulate.
- **Risk Evaluation:** Moderate risk, as confined spaces can be hazardous without proper ventilation.
- **Control Measures:**
 - Implement a confined space entry program.
 - Ensure adequate ventilation in enclosed areas.
 - Monitor air quality regularly.

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14. Fire Hazards:

- **Hazard:** The presence of fuel, oils, and other flammable materials poses a risk of fire during loading/unloading.
- **Risk Evaluation:** Moderate risk, as fires can cause injuries, damage, and interruption of operations.
- **Control Measures:**
 - Prohibit smoking in the loading/unloading area.
 - Provide fire extinguishers and emergency response training.
 - Store flammable materials in designated areas.

15. Bystander Safety:

- **Hazard:** Individuals in the vicinity who are not directly involved in the operation may be at risk of being struck by moving vehicles or falling objects.
- **Risk Evaluation:** Moderate risk, as bystanders may not be aware of potential hazards.
- **Control Measures:**
 - Establish designated safe areas for bystanders.
 - Use barriers or warning signs to delineate work zones.
 - Educate personnel and bystanders about the risks and safety measures.

16. Electrical Hazards:

- **Hazard:** The use of electrical equipment for lighting, hydraulics, or other operations can pose a risk of electric shock or fire.
- **Risk Evaluation:** Moderate risk, as electrical malfunctions can lead to injuries and damage.
- **Control Measures:**
 - Regularly inspect and maintain electrical equipment.
 - Ensure that electrical connections are properly grounded.
 - Provide electrical safety training for personnel.

17. Inadequate Training and Competency:

- **Hazard:** Insufficient training and lack of competency among personnel can contribute to errors and accidents.

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- **Risk Evaluation:** High risk, as proper training is crucial for safe loading and unloading operations.
- **Control Measures:**
 - Develop a comprehensive training program for all involved personnel.
 - Regularly assess and update training materials.
 - Verify the competence of operators through assessments.

18. Vehicle Exhaust Emissions:

- **Hazard:** Exposure to vehicle exhaust emissions, especially in enclosed spaces, can pose health risks.
- **Risk Evaluation:** Low to moderate risk, depending on the ventilation and duration of exposure.
- **Control Measures:**
 - Ensure proper ventilation in enclosed areas.
 - Implement a policy to minimize engine idling during loading/unloading.
 - Provide respiratory protection if needed.

19. Psychosocial Hazards:

- **Hazard:** The nature of the job, such as tight schedules or high-pressure situations, may contribute to stress and mental health issues.
- **Risk Evaluation:** Moderate risk, as psychosocial hazards can affect well-being and job performance.
- **Control Measures:**
 - Promote a supportive work environment.
 - Encourage breaks and stress-relief activities.
 - Provide resources for mental health support.

20. Unsecured Loose Items:

- **Hazard:** Loose tools, equipment, or debris on the carrier can pose a risk of tripping, falling, or injury.
- **Risk Evaluation:** Moderate risk, as unsecured items can cause accidents.
- **Control Measures:**

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- Enforce a policy for securing equipment.
- Conduct regular inspections for loose items.
- Provide storage containers for tools and loose items.

21. Communication with Vehicle Drivers:

- **Hazard:** Miscommunication between loading personnel and vehicle drivers can lead to incorrect positioning or premature movement of vehicles.
- **Risk Evaluation:** Moderate risk, as miscommunication can result in accidents.
- **Control Measures:**
 - Establish clear communication protocols between ground personnel and drivers.
 - Use signals, radios, or communication devices to convey instructions.
 - Ensure that drivers are briefed on the loading/unloading procedures.

23. Interference with Surrounding Infrastructure:

- **Hazard:** Unintentional interference with nearby structures or utilities during loading/unloading operations.
- **Risk Evaluation:** Low to moderate risk, depending on the proximity of infrastructure.
- **Control Measures:**
 - Conduct a pre-operation survey to identify potential risks.
 - Establish clear exclusion zones to prevent interference.