

KEYWORDS: DUMP TRUCK ; TIPOVERS; DRIVERS

10-15 MINUTES

Topic: Dump Truck Tipovers - Drivers



IDEAS FOR YOUR TALK:

- People remember facts better when they're interactive and visual: use Dump Truck Tipovers to illustrate or demonstrate your risk statements.
- People remember stories better than raw facts: think of a personal story that you can share.
- People structure thoughts to remember them: think of risks or defects that can occur with each component of Dump Truck Tipovers.
- YouTube is another good source of information and offers many safety videos and demonstrations. Select only videos that are high-quality.

Explain dangers:

Dump trucks have tipped over when their boxes were lifted. The result has been death and injury to drivers and nearby workers. When the box is raised, the center of gravity changes and the dump truck becomes unstable. Just consider some of the dimensions and forces involved. A dump trailer that is 14 m (46 ft) long and is raised at a 45-degree angle will be around 13 m (42 ft) high. That's a lot of height and weight to keep balanced.

Stability can be affected by one or more of these factors:

- The truck is not on a level surface when dumping • A large amount of material is stuck in the upper portion of the raised box
- The material does not flow out of the top portion (or one side of the top portion) of the box
- The rear wheels settle unevenly in soft ground as the load moves to the rear during dumping
- The wind exerts lateral force on the load. Stability may also be affected by the mechanical condition of the truck:
- Poor rear suspension systems on one side of the vehicle
- Uneven tire pressures in rear wheels
- Worn or inadequate components of the lifting system such as pins or lifting cylinders.

1. SUGGESTED ENGAGEMENT QUESTIONS:

- Who has used Dump Truck Tipovers on this job?
- What is the main risk involved in using Dump Truck Tipovers?
- Has anyone heard of an incident or accident involving Dump Truck Tipovers?

2. TALKING POINTS:

Let's take a few minutes to review basic operating procedures.

- At the loading point, make sure that the load is distributed evenly in the truck. Be aware of the truck's capacity and don't overload it.
- Always make sure that trailer and tractor are aligned before dumping.
- Dump only on level ground. On slopes, dump downhill rather than up—the box doesn't have to be raised as high.
- Stay in the cab during dumping and keep your seatbelt on. You're less likely to be injured in a rollover. If the truck starts to tip, DON'T TRY TO JUMP OUT.
- Always lower the box before moving the truck. This lowers the center of gravity and prevents rocking, swaying, and instability. It also prevents contact with overhead obstructions and powerlines.
- Keep lift axles down while dumping. Loads will be distributed over more bearing surfaces and the truck will not sink as easily in soft ground.
- Do not dump when parked near people or beside another vehicle. If the truck tips over, it could injure those nearby or the other driver

Demonstrate:

Inspect the boxes on one or two dump trucks. Check that the latch works properly. Point out any defects or damage.

3. CLOSING QUESTIONS:

- Do you know of any damaged Dump Truck Tipovers?
- Do you have questions on this subject, inspection or safe use?
- Are you aware of a risk on this jobsite that shouldn't be?



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