

Welcome to the Hard Hat Training Series!



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Welcome to the Hard Hat Training Series! Today, we're going to discuss the safe operation and safety principles of concrete mixer trucks. We will strive to provide the information and knowledge you need to become a safer operator.



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TRAINING SERIES

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Concrete mixer trucks are commonly referred to as “cement trucks,” but this is an inaccurate name. Cement is an ingredient found in concrete. Concrete consists of water, fine and course aggregates, and Portland cement.



Patented and developed in 1916 by Stephen Stepanian, the motorized concrete mixer truck was created to replace horse-drawn concrete mixers. Just as technology has changed over the years, so has the design of the concrete mixer truck. Once only doing one yard (.76 meters) at a time, today's trucks commonly mix up to nine and a half (7.26).



Typically, there are two different kinds of concrete trucks driven today: rear-discharge and front-discharge. Rear-discharge trucks require two people to operate: one operator driving the truck and one “chute man.” Front-discharge trucks only require one person to operate because the chute can be controlled hydraulically from the driver’s cab.

OSHA



STANDARDS

OSHA Act of 1970, 5(a)(1): "each employer shall furnish to each of his employees...a place of employment which is free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees."

29 CFR 1926.21, Training and Education

29 CFR 1926.600 Equipment

29 CFR 1926.602 Material Handling Equipment

29 CFR 1926.20, General Safety and Health Provisions, training

29 CFR 1910.146 Confined Space

These are some of the main standards concerning concrete mixer trucks. Many areas have additional standards, as do some industries. It is your responsibility to know all federal, state, provincial, local, and any company rules that apply to your machine and jobsite.



To explain the safety principles in this presentation, we will take a look at the functionality and components of a concrete mixer truck. We will also show you why it's important to conduct a thorough inspection at the beginning of each shift before operating the machine.

We will look at machine stability and the importance of not only knowing the concrete mixer truck's capabilities, but working within those limits.





We'll also emphasize the importance of planning each job, as well as the importance of knowing your machine and the area you will be working in. Understanding your machine, as well as the area you are working in, is imperative.



And finally, we will talk about some of the more common hazards associated with concrete mixer trucks and discuss how to recognize, avoid, or minimize them.



By the time you complete this training with both the written and practical exams, you should be better prepared to safely operate a concrete mixer truck. You will be familiar with the equipment used by your company, have an increased knowledge of how to inspect and safely operate it, and be able to recognize and avoid common hazards associated with their use.

Anatomy



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